

# Manufacturers Record

Industry Construction

Reg. U. S. Pat. Office



BALTIMORE, MD.

MAY 19, 1932

## Return to American Fundamentals

The article by United States Senator Josiah W. Bailey, which is printed on another page, comes with particular timeliness. Men and methods are being questioned, and searching inquiry is being directed into the ways of government.

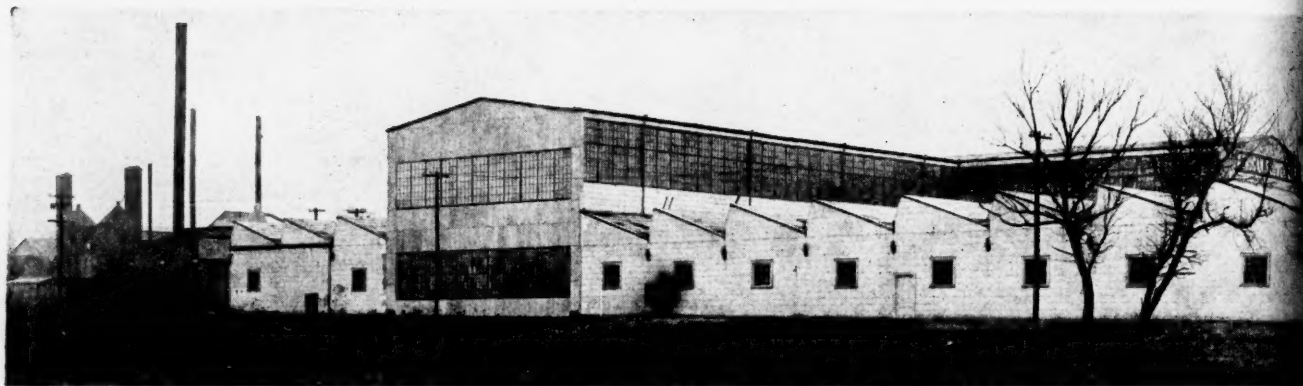
"At this moment," the author says, "taxes are so great, so burdensome, so multitudinous, so varied, and so unstable, and the total expense of government so disproportionate to total wealth and likewise to net income, or taxpaying power, that they threaten—quite gravely I may say it—actually to break us down. And some begin to think that, having gone so far in socialism—and we have gone one-quarter of the way since annual taxes are more than one-fourth annual income—we would do well to go all the way and be done. There is real danger here."

Are we as a people conscious of the experiment we have been conducting? An experiment that all the way along since its beginning has been an inspiration and a hope to people everywhere. It is now being assailed more determinedly than in ordinary times, because of depression and unemployment, by some who would substitute another experiment that would lead in the end to the destruction of initiative and individualism.

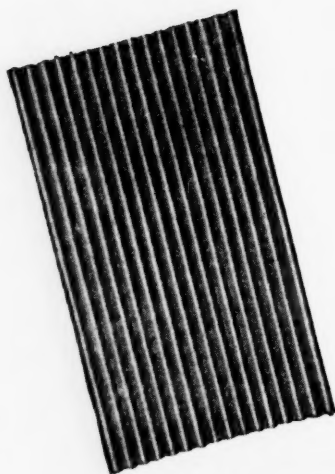
The country will agree with Senator Bailey that it is time to turn from the misconception of government functions which demands "legislative price fixing. \* \* \* Appropriations for all manner of objects. \* \* \* We ask for doles. We demand that the United States employ the unemployed — at the expense of taxpayers."

It is obviously time to turn and when we do—"It is my judgment, based upon my faith in the essential character of our Republic, not only as described in the Constitution, but in more than fourteen decades of trial, that in the final assize of the great experiments now before us, we will have established, not only for ourselves, but for all mankind, the superiority of constitutional, representative democracy, having liberty and equality for its objectives, and trusting its citizens with individual initiative as of the essence thereof; we will have set at last the model for the ages."

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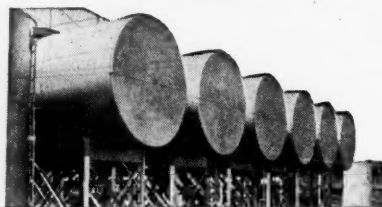
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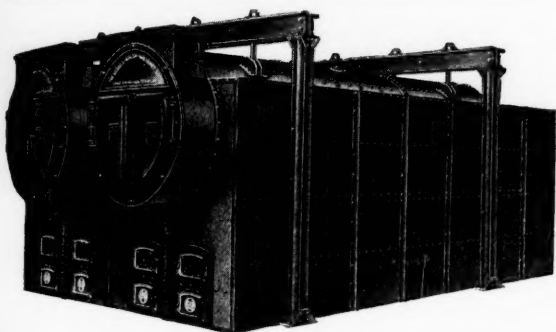
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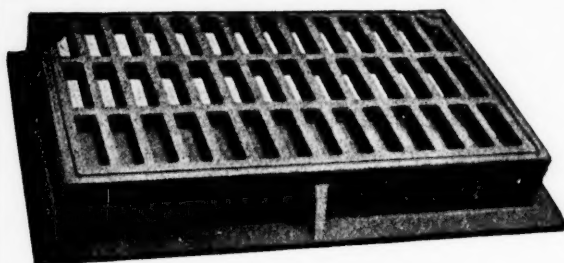
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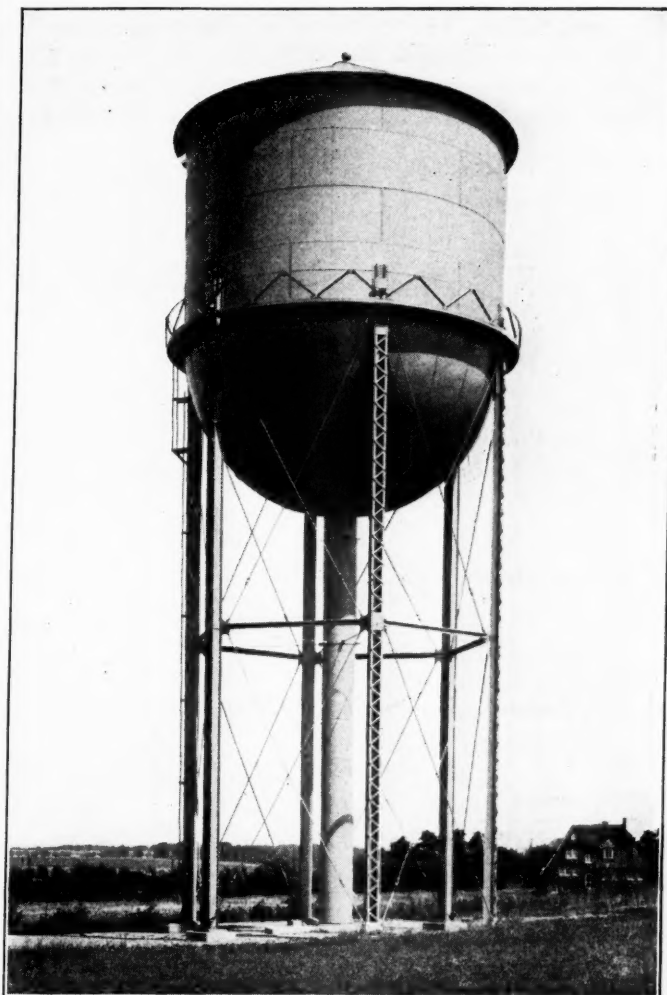
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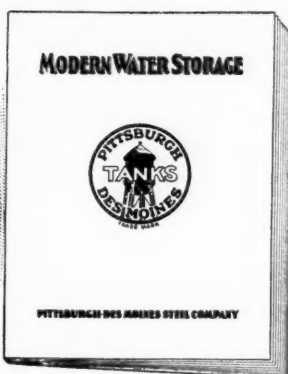
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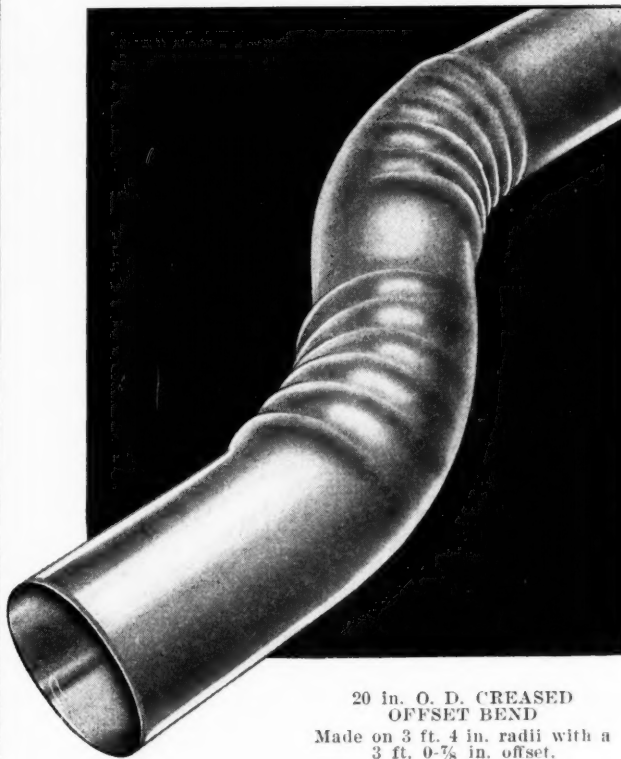
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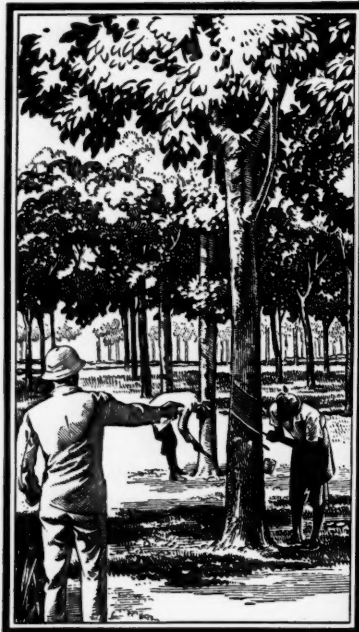
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Baltimore, Md., May 19, 1932

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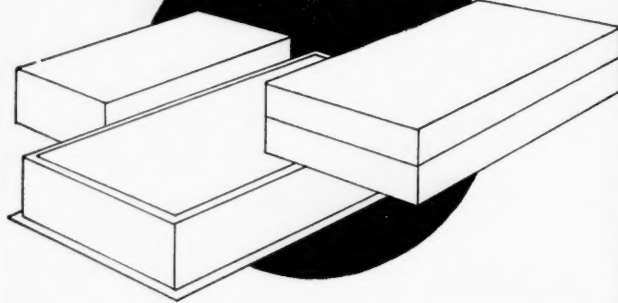
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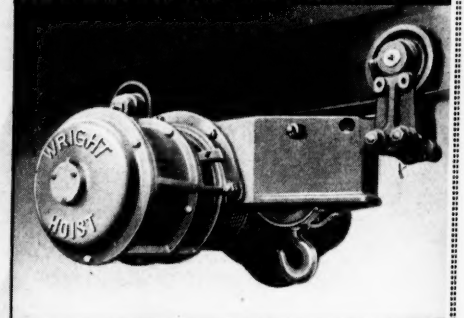
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# Manufacturers Record

Reg. U. S. Pat. Office

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

Vol. CI No. 20 }  
Weekly }

BALTIMORE, MAY 19, 1932

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## Local Tax Relief Under Way

THE spot light of publicity thrown on public extravagance, antiquated governmental methods and overlapping government bodies and commissions which have contributed to unbearable taxes, is securing results. Never before has the nation made such a thorough study of all its governmental activities and never has the demand been so universal for tax reform. House-cleaning has begun in the whole operating field of government that will be of immeasurable value in the future.

Elimination of obsolete local units with their costly duplicated administrations and officials is already under way. The first step was in consolidation of counties, consolidation of county and city governments, and reorganization and elimination of various district bodies within local units. Several such consolidations which have effected considerable savings and increased efficiency have been made in the South. In the United States there are 3072 counties, each with its separate officials, administrative and tax-levying bodies, and one county has been found with no less than 65 governmental units levying taxes. A check up of the outstanding bonds and payroll figures disclosed that authorities were so scattered that it was almost impossible to get at the exact facts to determine the extent of the indebtedness and the number of public workers who were living in whole or in part on the taxpayers' money. Evidently the public, strangely indifferent to what is going on in its own community, has been ignorant in larger degree of State and Federal conditions.

In a recent editorial on "How to Reduce Taxes," the Charlotte Observer said:

"The cry for tax relief has reached a volume that is bound to have attention. The quickest way in which the people may secure desired relief is to begin at home, and that is what the Charlotte Merchants Association is doing. The local association in emphasizing the increases in city and county payrolls called for retrenchment, with force back of it, that the city and county authorities make arrangements by which the payrolls would be restored to the level of 1926, and that by July 1. The call for economy encounters the political influence against abolishing the jobs. That is the only difficulty in the

way, for the increase in the tax load is occasioned by the increase in number of jobs that have been created. The way out is in elimination of surplus offices and combination of others. Charlotte and Mecklenburg county made one move in the right direction when they secured legislation that did away with the duplication of the tax-listing and tax-collecting agencies by consolidation into a single bureau. The increased efficiency and decreased payroll through this consolidation of the tax machinery offices has revived movement for consolidation of both city and county governments, and this resourceful move in economy is strongly advocated by the Merchants Association."

Likewise the Atlanta Constitution says:

"The action of the Atlanta council in authorizing a survey of all departments of the city government for the purpose of ascertaining if economies and greater efficiency can be accomplished, is a step in the right direction. If two men are doing the work one could efficiently render, there should be an adjustment in the interest of economy, and if methods are obsolete and expensive, modern and more economical systems should be installed. If the work of departments is overlapping, consolidations should be effected."

Reform in local government and reduction of local taxes should be the easiest to accomplish. Taxpayers can see at close range the duplication of effort which adds to costs of government.

The deplorable indifference of voters to public affairs has brought the nation to its present condition, where the public debt now takes about 25 cents out of every dollar of the nation's reduced income. In 1913, public expenditures represented about 6½ per cent of the total income; ten years later this proportion had jumped to 14 per cent, and in 1931 it was about 20 per cent.

Local expenditures in 1929 amounted to \$7,126,000,000, or 54.6 per cent of the combined expenditures of all governmental agencies in the United States. In 1928, local expenditures amounted to \$6,813,000,000, or 54 per cent of the combined total.

In the last year, however, local governments have been retrenching, with consolidations and reorganizations that have reduced operating costs.

Georgia has been a pioneer in the movement to consolidate counties and school districts. That state re-



duced a total of more than 200 bureaus, commissions and boards of trustees to about 17. The Fulton-Campbell county merger last year saved the taxpayers \$50,000. There is a wide field for such government economy in almost every state in the Union.

There are 100 counties in Virginia, and 52 counties reporting up to April 21, according to the Richmond News Leader, have made reductions in tax levies, and indications are that:

"Ninety per cent of the rural population will pay lower taxes in 1932 than at any time perhaps since 1922. The average reduction will exceed \$31,000 per county. We question whether any other state in the Union can show a speedier or more general adjustment to the changed economic situation. Virginia has relieved the counties of heavy road taxation; she has recovered gasoline taxes that should never have been diverted to the counties; and she is assured a system of road maintenance that will be more economical, in the average case, than local maintenance with poorly-trained engineers and inadequate machinery could possibly be."

Action by county taxpayers associations resulted in a \$7,500,000 tax cut in Minnesota's tax bill last year.

A survey conducted by the Associated Press indicated that Iowa will pay from \$10,000,000 to \$12,000,000 less in taxes in 1932, a reduction compared with 1931 of about 10 per cent. The Kansas City Tax Commission expects to cut the assessed value of farm lands 14 per cent and 8 per cent from improved real estate. Property taxes levied in Oregon in 1932 were cut 14 per cent. Ohio has slightly reduced the tax levy. The general property tax has been reduced 14.8 per cent in South Dakota, and further reduction of 10 per cent is expected for 1933. The ad valorem mill rate has been cut in Florida from 14 to less than 5. Alabama has reduced valuations for assessments, and Colorado likewise has cut assessed values. And so the movement is spreading over the country. There is much to be done however.

Investigation recently disclosed that of 82 counties in one state, 52 draw more money back from the State Treasury than they put in through taxes. In other words, the taxpayers of 30 counties were bearing the entire burden of the state government and contributing to the support of the other 52 counties.

In county and town governments alone in the State of New York, taking no account of incorporated cities and villages, there is an army of 15,000 officials, most of them elective and having constitutional status, and an even larger corps of other functionaries, paid and unpaid, elective and appointive, representing water, fire, light, sewer, sidewalk, police and other local improvement districts and the school districts with their boards. It was found that in 55 counties, leaving out New York City and the two suburban counties of Nassau and Westchester, there were 11,000 tax collectors, or an average of 12 per town.

Tennessee, it has been said, could save \$8,000,000 annually by reducing the number of counties from 95 to 65. Under the editorial heading, "Too Many Counties," the Nashville Banner refers to the agitation in progress in many states looking to a reduction in the number of counties, as one means of cutting the tremendous expenses of local administration which have increased more rapidly than Federal or State

costs in the last 15 years. It points out as indicating the widespread movement, that commissions in California, Michigan, Montana, New Hampshire and other states are conducting or have completed studies directed to the ascertainment of methods whereby county government may be improved and expenses lowered.

When the multiple county governments were established, the United States was sparsely settled and it was necessary to consider geographical conditions because of poor communication and inadequate transportation facilities. Now, when it takes only a few hours to cross almost any one of the states, there is no necessity for so many county divisions and certainly no good reason for the greater number of units within the counties.

Notwithstanding that government is the biggest business of the nation, in method and management it has operated on archaic lines. Taxpayers are beginning to realize that governmental agencies may be conducted on sound business lines, with due regard to revenue and expenditures, and elimination of waste, and that public employes can render the same efficient service that is required in successful private business.

## Reduce Government Cost

EVERY taxpayer should read an open letter on the rising cost of government, addressed to the employes of the Norfolk & Western Railway Company by President A. C. Needles. He states the crux of the matter when he says that a way must be found to curtail governmental expenditures, "before we can hope to see any permanent improvement in general business conditions and in the financial and traffic situation."

Without a reduction in government costs, there is no hope for lower taxes to lighten the burden placed on the reduced income of business and individuals.

President Needles illustrates the gravity of the situation by presenting the tax payment records of the Norfolk & Western. He shows that since 1921 its Federal tax bill has increased over 106 per cent and its State, county and local taxes increased more than 61 per cent. "In 1921, the railway's tax accruals were \$4,731,000, of which \$1,157,430 was for Federal government taxes and \$3,572,569 for State, county and municipal government taxes. Ten years later, in 1931, the railway's tax accruals totaled \$8,150,000, of which \$2,390,000 was for Federal taxes and \$5,760,000 for State, county and municipal taxes." The aggregate tax bill for the Norfolk & Western is now 72 per cent higher than it was ten years ago.

Referring to the fact that probably more than one-quarter of the nation's reduced annual income will be required for taxes, President Needles declares: "Neither corporations nor individuals can hope for improvement under such conditions." All branches

of government must realize that the same rigid economy as is now practiced by other business must be followed.

Editorial comments on President Needles' letter may be summed up in the view of the Roanoke Times which calls it a forceful, impressive, and unanswerable statement of the case. Neither government nor an individual can continue to spend money recklessly and disregard income without inviting bankruptcy.

The time has come to call a halt on such governmental expenditures as are not of an essentially constructive or upbuilding nature.

## Adjournment

IN correspondence and in newspapers the fear is expressed that Congress may not be able to adjourn before the national political conventions, and after the conventions are over the session may be resumed. Appreciating to the fullest the arduous task to which Congress has been compelled to address itself in one of the most serious economic periods that the world and this country have ever faced, it will be recognized even by the most earnest statesmen, genuinely concerned over the business and industrial life of the nation, that the doubt in every man's mind about legislation that may be enacted presents a constantly disquieting possibility. Business cannot go on smoothly and function properly while the fundamental serious questions before Congress are discussed and changed and bandied back and forth without result. The thing the country wants, and to which it is entitled, is that prompt action shall be taken upon a retrenchment program, with drastic cuts in the expenses of government, and it is hoped this will be done before adjournment.

There is too much uncertainty in regard to everything pertaining to the business situation to justify the constant upheaval of ideas and bills that can intensify an already bad situation if kept up very much longer. It is our opinion that the statesmen in Congress see this clearly and it is our hope that they will act definitely toward the desired end. The only way it can be done is to limit the time given to unnecessary and relatively unimportant legislation presented from many quarters. We must know what the tax bill will contain so that we may set our house in order. We must know how nearly we shall approach the balancing of the budget so that we may have the assurance of government credit being unassailed.

ONE must go out into rural areas where the people are quietly building up their little businesses to realize that the economic revival has started. And real money is growing in field, grove and garden. The small city and country community are the backbone of the nation. As they prosper, so will the nation.

## New Muscle Shoals Bill

THE inconsistencies of Congress were never more pronounced than in the passage by the House of the bill for Federal operation and expansion of Muscle Shoals. The measure makes another heavy addition to government expenditures, when the country is demanding economy and will lead to further governmental competition with private business.

The new bill provides for direct Federal operation of the power plant, and provisional operation of the nitrate plant. It authorizes the construction of the Cove Creek Dam in Tennessee which is estimated to cost \$34,000,000. Government operation of the power facilities would be limited, with the power to be sold "at the switchboard," preferably to states and municipalities. The provision in the bill for the leasing of the nitrate plant within 18 months to private interests for the manufacture of fertilizer, fertilizer ingredients and chemicals, contains the chief entering wedge for complete Federal operation; for, if no private bids are received, the government itself is to operate the nitrogen plant as well as the power plant.

The leasing provision for the manufacture of fertilizer or chemicals is merely a sop to the opponents of government ownership and operation in the field of private business. It is the chief "joker" in the bill, for under present conditions of business it is not likely that a private bidder can be secured within 18 months. Assuredly, no private capital could be induced to operate the nitrate plant, which all authorities agree is rendered obsolete by new chemical discoveries and advances made in the manufacture of synthetic nitrogen since it was placed in a stand-by condition in January, 1919, more than 13 years ago. Private business and individuals are having a hard enough time without having to bear the additional burden of taxation necessary if the Government makes further expenditures for modernizing and expanding the property.

The MANUFACTURERS RECORD has always advocated the fullest development of every part of the South. It wants to see Muscle Shoals used to its best advantage. It is not willing to see the fundamental rights of private business violated by the government going into the power and chemical business. Federal operation of Muscle Shoals is decidedly not in the best interest of the people of the United States.

President Hoover, on March 3, 1931, in vetoing a similar proposal for government operation of Muscle Shoals, said:

"I am firmly opposed to the government entering into any business, the major purpose of which is competition with our citizens. \* \* \* For the Federal government deliberately to go out to build up and expand such an occasion to the major purpose of a power and manufacturing business is to break down the initiative and enterprise of the American people; it is destructive of equality of opportunity amongst our people; it is the negation of the ideals upon which our civilization has been based."

The new House bill leads directly to government ownership and operation of a power and manufacturing business, in direct competition with private business. It will place an unjustifiable burden upon the country.



# Modern Experiments in Government

By JOSIAH W. BAILEY, Senator of the United States from North Carolina



Josiah W. Bailey

five forms. Never before have all available theories been presented to a generation so definitely.

There is the Italian experiment—the benevolent social despotism, denying liberty and affirming the super-state.

There is the English experiment—a social democracy emerging from monarchy and aristocracy, a plastic sort of government without a fixed constitution, free to do whatever it may choose, but limited for the time by the great traditions of liberty, as defined in the right of personal liberty, the right of personal security, and the right of personal property.

There is the Russian experiment—communism under direction of a benevolent despot, and with no vestige of liberty.

There is the Japanese experiment—a military monarchy, expanding by conquest and denying liberty.

And there is the American experiment—a Union of States, a Federal Union, a representative, constitutional democracy; its Constitution written, fixed, capable of alteration, but only with difficulty:—a triple sort of government—of separate States, which have powers, each its own; a Federal Union thereof with powers strictly limited; and a whole people to whom all powers not delegated by express act are reserved. And, underlying all, the liberty of the English-speaking race, defined, as I have said, as the right

GOVERNMENT has always been an experiment. There have been no Utopias, and none is likely. The experiment of government presents itself broadly at this moment in

of personal liberty, the right of personal security and the right of personal property, with another and nobler liberty, religious liberty:—such liberty as a whole being interpreted in equality of opportunity, justice, individual initiative, the voluntary principle, and self-reliance. Such is the Institution designated as the American Republic.

We should not regret that these five experiments promise now to be tried out before our eyes. It is to our interest that they shall be tried out. When they shall have been, the human race will have gained in experience far more than the suffering the trial will entail, great as that promises to be. Neither fools nor others will have other school than the school of experience.

We may leave the other experiments to the people that are to perform them and pay the price. It is our duty to see to it that the American experiment shall be performed according to its terms. This is of the utmost importance, not to us only, but to all who shall come after us in every portion of the earth.

The present danger is that the American Experiment will be compromised and so its value lost. For we seem to have lost our sense of the character of our Republic. We are full socialist in one mood and half communist in another. We even conceive of our experiment as capitalistic, whereas it is nothing of the sort. It is individualistic—it is dedicated to individual liberty. Nothing goes to show how careless we have become as our willingness to have the communist and socialist to put the word "capitalist" in our mouths when describing our system—at least I hope it is an evidence of carelessness, although I suspect that too many Americans are more socialistic than even they like to admit, and "capitalist" fits only too well their conception of our Government.

Cotton prices fall, and at once tens of

thousands of the English breed, even of the South, demand State control of production. This is socialistic and it predicates communism, for all that the agitators deny socialistic or communistic proclivities. We demand legislative price-fixing. We ask the Federal Government to look after matters of maternity. We fall victims of a tornado or a fire, and call for an appropriation from Washington, and so substitute taxation and force for the voluntary spirit. We look to the Congress for appropriations for all manner of objects not within the governing function. We ask for doles. We demand that the United States employ the unemployed—at the expense of taxpayers.

All these and many more speak of the socialistic character of the people of the United States and their representatives in Congress. They inform us that we have forgotten what the declared objects of the formation of the Federal Union were; that we have lost the constitutional sense of the meaning of that liberty, the blessings of which we have so solemnly covenanted to preserve for ourselves and our posterity; that we have abandoned individual initiative and self-reliance and the voluntary principle, the very bed-rocks of our system; that we have utterly lost sight of that perfect simplicity of government which was the ideal of Washington, of Jefferson, of Mason, or Marshall, of Franklin and Adams, and have erected, in the place of the simple structure which they gave us, a vast and complicated, mongrel sort of thing of government, cumbersome, ineffectual and finding great difficulty in functioning; its people all in confusion as to what they are to do by means of it or what they may expect of it—all too ready to blame it with every ill that befalls them and to demand of it remedy against every evil; that individual or local welfare have become confused with that "general welfare" declared by the



Constitution to be the consummation of government; that "general welfare" has been suffered to over-shadow liberty—precisely as in Italy, Russia and even in England.

At this moment taxes are so great, so burdensome, so multitudinous, so varied, and so unstable, and the total expense of government so disproportionate to total wealth and likewise to net income, or taxpaying power, that they threaten—quite gravely I may say it—actually to break us down. And some begin to think that, having gone so far in socialism—and we have gone one-quarter of the way, since annual taxes are more than one-fourth annual income—we would do well to go all the way and be done. There is real danger here.

Truth is, this is at bottom the present issue: This Republic (i. e. this Federal Union of States and the States) must choose between turning again to Jeffersonian simplicity of government and Marxian complexity of government; between individualism and collectivism. There are but two schools of political economy, speaking broadly: to wit, the school of Adam Smith, upon which the individualistic, personal liberty system rests; and the school of Karl Marx, upon which the collectivistic anti-liberty system rests. There is no possibility of reconciling them; no way to compromise as between them, as England will discover to us in due season: there is no half-way ground.

We are the one people to try out the system of individualism, of liberty, of the voluntary principle, of the economic principles of Adam Smith. And, for all our backsliding, it is not too late for us to return from our wandering to the house which the fathers built, and which is ours as a priceless trust, a heritage not only for ourselves, but our children and children's children. The present emergency offers us this opportunity, even demands such return.

If we shall, it is my judgment, based upon my faith in the essential character of our Republic, not only as described in the Constitution, but in more than fourteen decades of trial, that in the final assize of the great experiments now before us, we will have established, not only for ourselves, but for all mankind, the superiority of constitutional, representative democracy, having liberty and equality for its objectives, and trusting its citizens with individual initiative as of the essence thereof; we will have set at last the model for the ages. The present dislocation may discourage us, but it is not sufficient to shake our faith. We have not failed, nor may we, as we mark conditions in Russia or England, Japan or Italy, find aught to justify envy of them or emulation of their systems.

## Carload of Plantation-Grown Tung Oil Shipped

The first tank car load of plantation grown tung oil produced in America was recently shipped from the tung oil extraction plant owned and operated by the Alachua Tung Oil Company, Gainesville, Ga., a subsidiary of Benjamin Moore & Co. Special ceremonies marked the initial shipment, with the following participating: J. McL. Ridgell, secretary, Gainesville Chamber of Commerce; C. Concannon, chief chemist, Department of Commerce, Washington; Albertus Miller, manager, Tung Acres Groves, Gainesville; Dan T. Cushing, vice-president, Great Southern Lumber Co., Bogalusa, La.; Lamont Rowlands, Picayune, Miss., owner of 7000-acre tung grove; H. W. Bennett and Buckner Chipley, both of Gainesville.

The Florida tung nut crop just harvested gives a fair index of the possibilities of the industry. The manager of the Benjamin T. Moore Paint Company's 1900-acre 6-year old grove reports a crop nearly four times the size of the previous crop. The company reports a high

record of 94 per cent oil recovery against an average of 60 per cent recovery in China, where century-old methods of pressing in hollowed-out logs with wedges are still in practice. It is said that one 6-year old grove reports an average of 6700 pounds of dried nuts in their shells per acre, and another 4-year old grove reports 4000 pounds per acre.

A recent inspection by a committee representing the Gainesville Chamber of Commerce was made of an experimental grove of the American Tung Oil Corporation, owned by about 50 of the leading paint and varnish manufacturers of the country. It indicates that many trees bore 2000 fruit, each fruit containing an average of 5 nuts that run when dried 130 to the pound, and that the crop from such trees produces about 25 pounds of oil.

It is announced that the American Paint and Varnish Association of Washington has perfected a simple process for solidifying the oil, so it may be shipped in paper bags. A simple heat treatment brings it back to liquid form.



Interior of a Tung Oil Extraction Plant at Gainesville, Ga.

### Tannery Calls 140 Men to Work

Luray, Va.—The Deford Tanning Company has recalled 140 men who formerly were employed here to report for full-time work. Many of the company's leather rollers, thrown out of work when

the plant closed some time ago, have been notified to return. The company has introduced a new leather tanning process, similar to one in use in Switzerland, which is said to reduce the time of leather tanning from a period of several months to a few days.

# Manufacturing Comfort at Home

By A. W. WRIEDEN, Secretary, Holland Institute of Thermology, Holland, Mich.

**A**RTIFICIAL air-conditioning for homes brings with it an assured indoor comfort, summer and winter, regardless of outdoor conditions. It involves the warming of indoor air in cold weather, and adequately humidifying it to overcome its characteristic winter dryness, then cleaning it and maintaining it in draftless motion. In summer, the air is cooled.

Clean air is a vital thing, for it conserves health, enhances comfort and also it preserves the immaculate interiors of well-maintained homes. And of interest is the fact that air-cleaning is incidental to the process that is the principal means for summer cooling as developed by the latest type of air-conditioning equipment. The home air, by means of silently operating blowers or air circulators, is circulated constantly through the air-conditioning unit. In this process it first is drawn through a filter which removes the coarser dust particles, then it is forced through a series of fine, swirling water sprays. This filtering and washing, according to laboratory tests, removes 99 per cent of the dust and impurities from the air.

Summer cooling is primarily achieved by the washing process. Air-conditioning systems that employ the water-washing method are connected direct with the

house water mains, the flow of the water being automatically controlled. In localities where the water supply is from deep wells and therefore cold, a pleasing cooling effect is attained. In event the city water supply is of comparatively high temperature, that is, 60 degrees or more, a specially-designed refrigerating unit is employed to cool the water before it is used in the washing spray chamber of the conditioning unit. Washing with cold water serves also to dehumidify the air, thereby removing excess moisture. The pleasure of this washed, cool air is enhanced by the draftless air motion which prevents air stagnation and removes body heat and moisture. And in the suitably equipped home, these ideal conditions may be had by the flip of a toggle switch that adjusts thermostatic control of the air-conditioning system for either summer or winter operation.

During winter, air-conditioning involves moderate, uniform temperatures in draftless, circulating, washed air. The air-washing process, which is the primary means for summer cooling, is employed also for properly moistening the home air in winter; when the air is thus humidified, complete physical comfort is assured in moderate temperatures, 68 to 72 degrees.

It is the thought of some well in-

formed people that the introduction of air-conditioning equipment for home use marks the beginning of what will become one of the nation's large industries, an industry which directly and indirectly will provide employment for thousands in factories, mills and in local communities. Effective air-conditioning is primarily a means to human comfort and welfare and its moderate cost puts it within reach of the masses. It is estimated that owners of at least half the existing homes are present prospects, a market that includes 13,000,000 homes or more in all parts of the country. This does not take into consideration the new homes which under normal conditions number 300,000 to 500,000 a year. It is not too much to say that every householder will want his home air-conditioned, and ultimately, the home that is not air-conditioned will not be regarded as modern.

To this market in the home must be added the potential developments in manufacturing and commercial lines, an indication of which is seen in the adoption of air-conditioning for passenger rolling stock by leading railroads. Also, the South already boasts several completely air-conditioned office buildings.

## Post Office Excavation Completed

Montgomery, Ala.—Excavation has been completed for the new \$845,000 post office building here, for which Algernon Blair, local builder, was awarded general contract several weeks ago. Concrete footings have also been poured. The building will be 4 stories and basement, faced with granite and limestone. Frank Lockwood, Montgomery, is the architect.

Subcontracts so far awarded include the following:

**Granite (7000 cubic feet)**—Wilson-Chapman Granite Company, Lithonia, Ga.

**Limestone (46,000 cubic feet)**—Bedford Cut Stone Company, Bedford, Ind.

**Structural steel and erection (1000 tons)**—Virginia Bridge & Iron Co., Birmingham

**Reinforcing steel (300 tons)**—Connors Steel Company, Birmingham

**Roofing and sheet metal work, including clay tile roof covering**—Hinkle Brothers Company, Birmingham

**Plumbing, heating and ventilating**—Tibbetts Plumbing & Heating Co., Union City, Ind.

**Electrical work**—Southeastern Electric & Engineering Co., Montgomery

**Ready mixed concrete, using Atlas Portland cement and sand and gravel from Roquemore Gravel Co., Montgomery**—Hodgson & Jones Construction Co., Montgomery

**Common brick**—Jenkins Brick Co., Montgomery

**Excavation (16,000 yards)**—Goldsmith Bros., Montgomery

**Steel sash**—Truscon Steel Co., Youngstown, Ohio

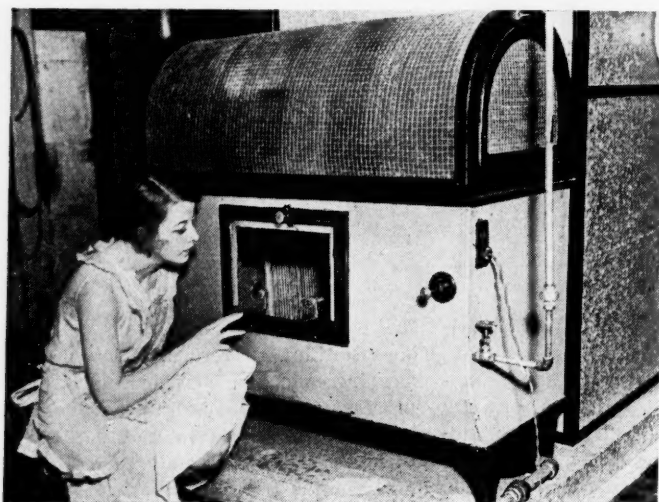
**Magnolia cement**—Southeastern Cement Co., Birmingham

**Waterproofing and dampproofing**—Marvin Corporation, Chicago

**Millwork and fixtures**—Acme Building & Supply Co., Meridian, Miss.

**Finishing hardware**—P. & F. Corbin Company, New Britain, Conn.

**Cast concrete roof slabs**—Federal American Cement Tile Co., Birmingham.



Cools the  
Air in  
Summer

Looking  
into  
window  
of  
air-washing  
chamber  
of  
Holland  
air-conditioning  
unit



# A \$165,000,000 Industry

Unusual Advances Made by Southern Laundries and Dyers and Cleaners—Expend \$25,000,000 Yearly for Supplies, Fuel and Power

By

SAMUEL A. LAUVER

IN the doubling of Southern laundry business and in the four-fold rise in the value of the service rendered by Southern dyeing and cleaning establishments during the past decade is seen the passing ultimately of the individual negro laundress, who for so long has been almost symbolical of duties such as these below the Mason and Dixon line.

Since 1919, the number of laundries in the Southern states has increased from 1035 to 1532 and the value of the service rendered has advanced from \$53,000,000 to \$117,000,000. During the same period, the number of dyeing and cleaning es-

tablishments reached 1845, or more than triple the 575 of 1919, and the total value of work produced amounted to almost \$48,000,000, or more than four times the \$12,000,000 figure for the Southern branch of this industry 10 years ago.

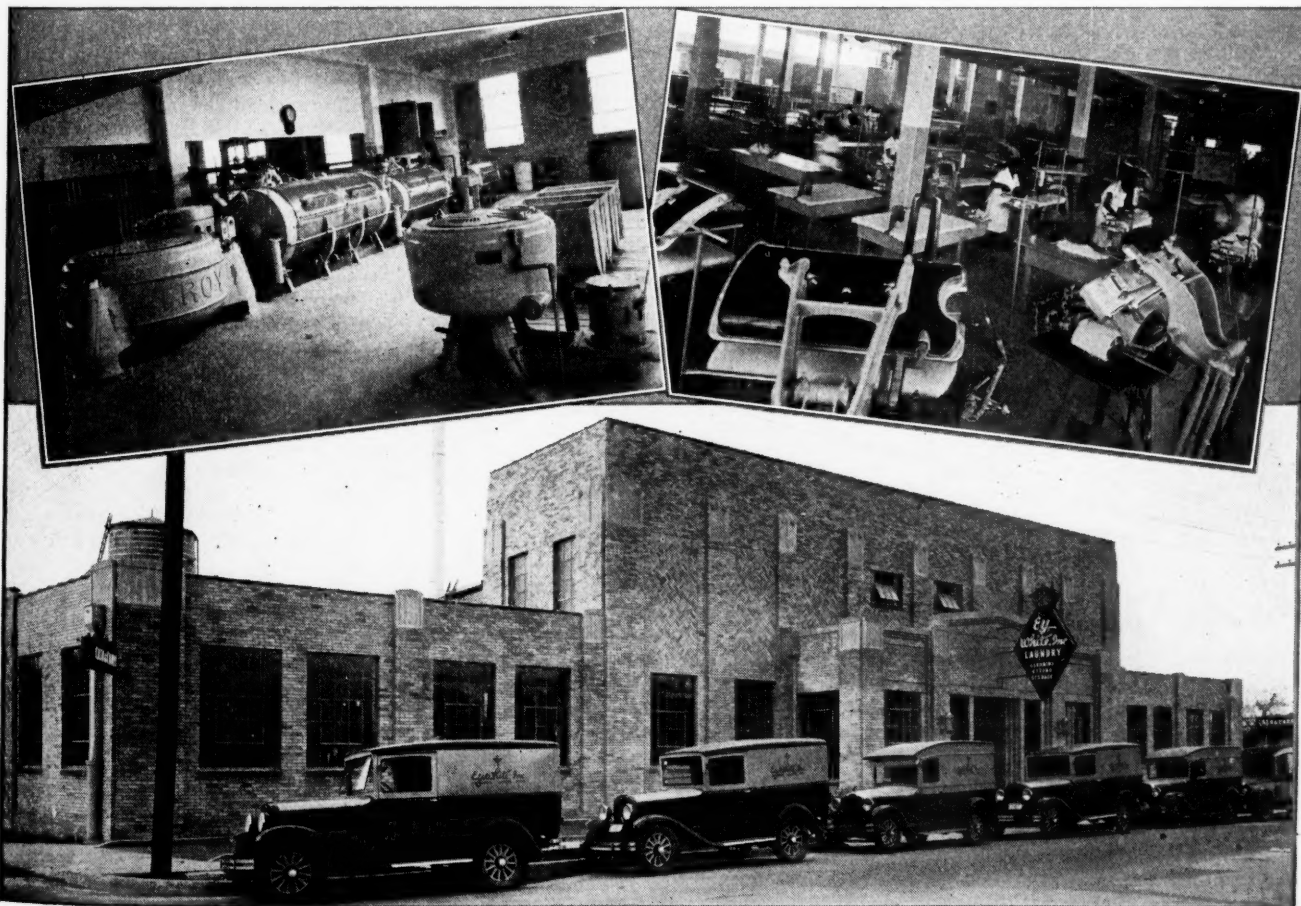
Machinery to render this service is estimated to be valued at 30 per cent

of the annual business volume of \$165,000,000, or about \$49,500,000. Improvements in design and equipment have been pronounced in recent years. The progressive plant-owner protects his future profits by setting aside at least 10 per cent for depreciation. Applying this formula to the value of such equipment in the South there is revealed a market in that section for new machinery to the amount of almost \$5,000,000 annually for replacement alone, besides the new equipment for additions to established laundries and new plants made necessary by the growth of business. Indica-

Modern Laundry Machinery

and

A Modern Finishing Department



A Laundry in San Antonio



tions are that this market will continue to expand, especially in view of the fact that economic disturbances do not seem to cause such violent fluctuations in this industry as have been so noticeable in others.

### Scope of Service

Because of the absence of numerous great metropolitan centers—a factor of importance in laundry development—the decided advance made by the Southern cleaning industry is regarded as remarkable. The movement of population from the farm to the more urban community is, however, given as a contributory cause. Apartments, too, foster commercial laundering. All over the country



Shirt-Finishing Department of a Plant in Louisville, Ky.

### Growth in Volume of Business Done by Southern Laundries and Dry Cleaners (Government Census Figures)

States	Volume of Work (Done by Laundries)		Per Cent Increase	Volume of Work Done (by Dry Cleaners)		Per Cent Increase
	1919	1929		1919	1929	
Alabama	\$2,196,118	\$4,529,146	106.23	\$487,293	\$2,349,675	382.19
Arkansas	1,393,024	2,139,803	53.61	215,912	1,389,789	543.68
District of Columbia	2,559,210	6,128,674	139.48	236,761	1,171,116	394.64
Florida	1,480,051	6,372,400	330.55	166,834	2,141,683	1183.72
Georgia	3,216,832	6,301,915	95.90	320,963	1,943,890	505.64
Kentucky	2,905,346	6,293,136	116.61	720,341	2,437,530	238.39
Louisiana	2,349,774	5,548,656	136.14	384,776	1,556,397	304.55
Maryland	2,640,686	6,028,564	128.29	1,011,843	2,787,957	175.53
Mississippi	946,670	2,271,605	139.96	128,143	1,249,896	875.39
Missouri	9,438,493	17,222,776	82.47	2,827,687	7,263,909	156.89
North Carolina	2,252,100	6,870,238	205.06	321,586	2,728,342	748.40
Oklahoma	3,561,059	7,542,166	111.80	844,682	3,050,574	261.15
South Carolina	833,801	1,736,192	108.23	152,458	1,079,482	608.05
Tennessee	3,639,602	8,374,322	130.09	894,743	2,978,532	232.89
Texas	9,249,915	20,594,690	122.65	1,910,999	8,997,701	370.84
Virginia	3,009,759	5,540,426	84.08	698,898	2,828,680	304.73
West Virginia	1,775,349	3,793,224	113.66	560,139	1,864,993	232.95

Total ..... \$53,447,789 \$117,287,933 119.44 \$11,884,068 \$47,820,346 302.39

### Combined Volume of Work Done by Laundries and Dry Cleaners

16 Southern States			Per Cent Increase
	1919	1929	
	\$65,331,857	\$165,108,279	152.72

there is a trend in this direction. As apartment dwellers in the South cannot be regarded as numerous in proportion to those in the East and Middle West where great population density makes apartment-living in the large cities to some extent compulsory, a change toward use of the commercial laundry by residential dwellers is indicated.

Also, there is the appeal of sanitation,

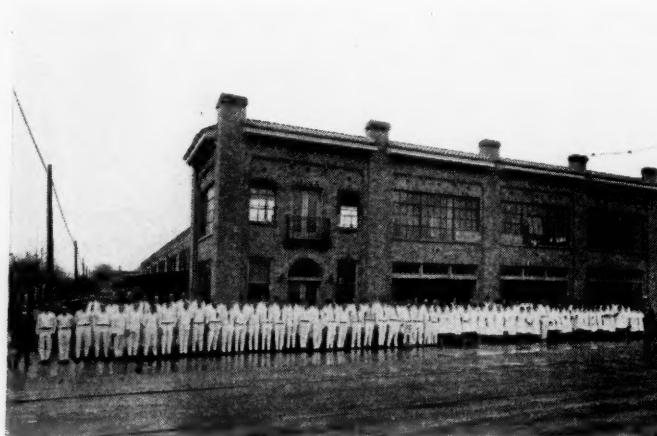
cleanliness and personal appearance. Housewives of the South are beginning more generally to recognize the disadvantages of the individual laundress, especially of that type which takes the wash into surroundings of doubtful sanitation. The irregularity and uncertainty of a proportion of these workers also places them in an unfavorable light and brings out more forcibly the fact that

the commercial laundry eliminates these faults and also emphasizes the necessity of supervision by the housekeeper and the disorder and disturbance due to laundering in the home.

### Requirements Differ in Various Centers

While generally similar, the laundry situations in the various communities are not exactly comparable. Washington and Baltimore, cities 40 miles apart, are examples of this. The former has a little more than three-fifths the population of the latter, but does over a million dollars more of laundry business each year. Laundrymen attribute this difference to the occupational character of Baltimoreans, to the predominance of home ownership in the city as contrasted with the great number of out-of-towners and apartment dwellers in Washington, as well as to the comparatively higher salaries received by Washington government workers and officials.

At Miami, Fla., another situation prevails, chiefly because of the mild climate which attracts many people from other



A Fort Worth Laundry, With Employees



This Plant Is Located in Atlanta, Ga.



Showing Plant and Part of Delivery Fleet of a Plant in Greensboro, N. C., Where 140 People Are Employed

sections during the winter months. In summer there is a surplus of colored help. In winter, however, this class of labor secures employment in hotels and apartments as general maids or in other such capacities; the public, which has been sending washing to the colored laundress, then turns to the power laundry. What amounts to a summer hardship is encountered by the local laundry industry. While the excess business during winter months is usually sufficient to provide a profit on a year's operation, yet, if this domestic trade could be handled in summer, as well as in winter, it would make a more even flow of business, presenting more of an opportunity for profit in the warm months.

The negro population, of which such a large percentage is in the South, is considered in its entirety as having no pronounced effect on steam laundries in the larger centers of population, so far as competition is concerned. Muskogee, Okla., with a population of over 32,000, is one town where this competition is somewhat keen. Many Southern plants employ negro women to carry on the work. Thus, although the laundress is losing her individuality, she is assuming

a new role in the commercial laundry, an inevitable result of the present machine age.

What is being lost by the negro laundress of the South is being gained to a certain extent by negro operators employed in innumerable small pressing establishments. There are in the South a fair number of very good and well-known plants and an exceptionally small number of second and third rate plants. Stoddard's in Atlanta is one of the outstanding plants in the country, as is the plant of Krauss & Company, at Memphis. Zenith-Caslon, Dallas, Lungstrass in St. Louis, and Arcade Sunshine in Washington are all regarded as unusually fine establishments.

### Rural Area Business

Although it cannot be considered as typical, the situation on the peninsular Eastern Shore of Maryland will illustrate what is being done in the more distinctly rural areas. Almost every community of any size has at least one or more cleaning, laundering or dyeing establishments. The more difficult work received by these small operators is

farmed out to the larger plants in such towns as Salisbury, where a half-dozen are located. Trucks facilitate collection and delivery of the work. It is doubtful whether at the present time such service is purchased as extensively by tillers of the soil as heretofore. One of the laundries in Baltimore has extended its territory into rural areas much farther than the usual 15 to 25-mile radius.

### \$25,000,000 a Year for Supplies,

#### Fuel and Power

A few statistics will give an idea of the value of laundering and dyeing and cleaning to Southern communities and of the growth of the industry during recent years. Wages and salaries paid yearly to 66,000 workers in laundries now approximate \$56,000,000, as compared with nearly \$26,000,000 paid to 39,000 workers 10 years ago. Salaries and wages paid 18,500 workers in Southern dyeing and cleaning establishments amount to about \$21,000,000. A decade ago this figure was about \$5,000,000, paid to 5500 employees.

Supplies purchased yearly by laun-

#### Volume of Laundry and Cleaning Business in Representative Southern Cities

City	Amount Received for Laundry Work	Received for Dyeing and Cleaning	City and Metropolitan Area Population
Atlanta .....	\$3,872,000	\$953,000	371,000
Baltimore .....	4,748,000	1,152,000	949,000
Birmingham ...	2,588,000	1,159,000	383,000
Chattanooga ...	842,000	380,000	168,000
Dallas .....	3,164,000	1,256,000	311,000
El Paso .....	1,022,000	325,000	119,000
Fort Worth ...	1,717,000	896,000	175,000
Houston .....	3,541,000	1,565,000	339,000
Jacksonville ...	1,074,000	453,000	149,000
Kansas City ...	5,758,000	1,940,000	465,000
Knoxville .....	1,008,000	362,000	136,000
Louisville .....	2,818,000	1,063,000	404,000
Memphis .....	2,987,000	1,304,000	276,000
Miami .....	1,951,000	525,000	132,000
Nashville .....	2,086,000	395,000	209,000
New Orleans ...	3,290,000	873,000	495,000
Norfolk .....	830,000	513,000	193,000
Oklahoma City ...	1,926,000	656,000	202,000
Richmond .....	1,131,000	711,000	220,000
St. Louis .....	7,664,000	4,003,000	1,040,000
San Antonio ...	1,430,000	437,000	279,000
Tampa .....	964,000	289,000	129,000
Tulsa .....	1,703,000	730,000	183,000
Washington ...	6,129,000	1,171,000	621,000



Above—An Up-to-Date Laundry and Dry Cleaning Plant, and, at Right, a Laundry in Savannah



dries and dyers and cleaners involve an expenditure of \$18,500,000, not including almost \$7,000,000 for fuel and power. These supplies cover such items as soap, soda, starch, chemicals, solvents, dye-stuffs, wrapping paper, paper bags and boxes. Pads for the presses constitute an important item in the expense of the modern laundry. These must be replaced about every three days. Cotton net bags, in which soiled work is placed during the washing and extracting operations, are another important item, not only from the viewpoint of expenditure but also because of the utilization of cotton.

Manufacturers of laundry equipment and dyeing and cleaning equipment have had much to do with advance of the industry by developing and designing machines to reduce operating costs and to produce better results. What now also is an outstanding factor in the great advance is the organization of associations for the express purpose of furthering scientific research in their respec-



Production and Finishing Departments in a Greensboro, N. C. Plant

tive fields. At Joliet, Ill., the Laundry-owners National Association has established the American Institute of Laundering, where in addition to a complete and scientifically designed laundry, research laboratories and a vocational training school for study of all phases of

laundry operation and management are maintained. The National Association of Dyers and Cleaners has at Silver Spring, Md., a similar establishment for proving, improving and instructing in the various matters pertaining to dyeing and cleaning.

### Building Activity Stimulated

Columbia, S. C.—A revival of building operations in South Carolina is suggested in the number of projects contemplated or under way as reported by the current bulletin of the Carolinas branch of Associated General Contractors of America. Of several relatively large projects listed, the following are included: Masonic Temple at Florence for which contract has been awarded; \$100,000 factory building at State Penitentiary, Columbia, on which bids are being received; store and hotel at Georgetown for Harry Fogel, for which plans have been prepared; remodeling and re-roofing plant of Anderson Cotton Mills, Anderson, for which plans are being prepared; residence at Florence for Dr. John M. Barnwell, on which the architects will receive sub-bids; post office building at Cheraw, bids for which are expected to be received in June, and the construction of an electric distribution and lighting system and installation of electric ranges at Fort Moultrie, Charleston.

### Naval Stores Committees

Savannah, Ga.—Standing committees of the naval stores section of the Savannah Chamber of Commerce are announced as follows by R. E. Thorpe, chairman of that section: Executive committee—R. E. Thorpe, chairman; George W. Drummond, vice-chairman; C. H. Carson, A. Gordon Cassels, Charles Theus, Irving Post, O. T. McIntosh, John

D. McGillicuddy, J. C. Schwarz, John M. Blain, H. H. Bruen, W. E. Coney, J. K. Rozier and John R. Walsh. Inspection—J. A. Myers, chairman; W. E. Coney, A. D. Pace, George Doerner and John Register. Yards and Transportation—P. J. Rooney, chairman; John W. McGillicuddy, John R. Walsh and Charles Theus. Information and Statistics—Porter Mackall, chairman; Charles Murphy, A. Gordon Cassels and Irving Post. Complaints and Arbitration—J. P. Houlihan, chairman; J. C. Schwarz, O. T. McIntosh, John M. Blain and H. H. Bruen.

### Alabama Should Use More Home-Produced Dairy Supplies

A market for dairy products valued at \$18,574,470 in 1930 lies at the door of Alabama farmers in and around the 13 principal cities of Alabama, according to a survey by the Alabama Industrial Development Board, with the cooperation of the State Department of Agriculture, the State Health Department and Alabama Polytechnic Institute. Based on 1930 retail prices, the total value of dairy products imported from outside Alabama into these cities was \$5,495,718. The cities represent approximately one-fifth the population of the state.

The figures, as compiled and checked from sales figures of distributors, show the average per capita expenditure for dairy products consumed within these 13

cities—Anniston, Bessemer, Birmingham, Decatur, Dothan, Florence, Gadsden, Huntsville, Mobile, Montgomery, Phenix City, Selma and Tuscaloosa—to be \$26.42 in 1930, or 47 per cent less than the average for cities of the United States. For every dollar expended for butter, cheese, ice cream and condensed and evaporated milk, 41.4 per cent went out of the state for these products or their ingredients.

### Texarkana Post Office Started

Texarkana, Ark.-Tex.—The Gauger Construction Co., Memphis, Tenn., general contractor for the construction of a new \$500,000 post office building here, is now excavating and plans to start foundation piling work within a few days. Sub-contracts have been awarded as follows to date:

**Excavation**—Young & Brown Co., Texarkana.  
**Foundation piling**—Raymond Concrete Pile Co., Kansas City, Mo.  
**Structural steel**—Petroleum Iron Works Co., Beaumont, Tex.  
**Miscellaneous and ornamental iron, bronze, brass, hollow metal work and hose cabinets**—Badger Wire & Iron Works, Milwaukee, Wis.  
**Steel sash and metal windows**—Voightmann Metal Window Corporation, Kalamazoo, Mich.  
**Lathing and plastering**—Taylor & Forbes Co., Texarkana.  
**Acoustical and rubber tile work**—Thos. Moulding Floor Co., Chicago.  
**Millwork**—Enochs Lumber & Manufacturing Co., Jackson, Miss.  
**Screens**—Morrison Skinner Co., Wakefield, Mass.  
**Finish hardware**—Russell Erwin Manufacturing Co., New Britain, Conn.  
**Glass and glazing**—Binswanger & Co., Memphis, Tenn.  
**Electrical work**—Texarkana Electric Co.  
**Sand and gravel**—Gifford Hill & Co., Inc., Dallas, Tex.



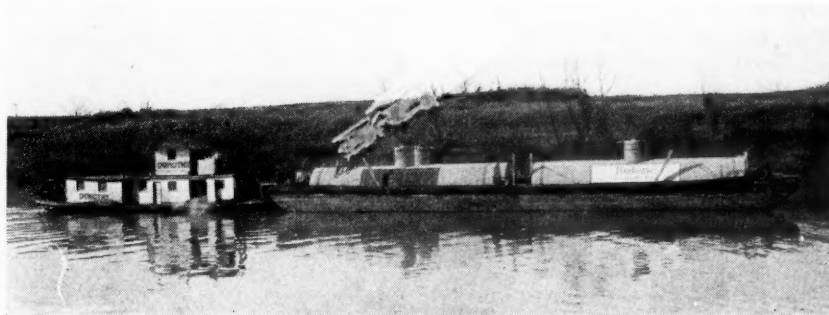
# Oil Transport System for Alabama Rivers

**D**URING the past year the Wofford Oil Company of Birmingham, a Pure Oil Company subsidiary, has developed a substantial system of transportation on the rivers of Alabama, the parent company's ocean terminal at Mobile furnishing the foundation for this development.

At Tuscaloosa, which is located on the east bank of the Warrior River, 360 miles by water from Mobile, it was not necessary to construct a new river terminal, as the company's bulk station is located near the stream. Gasoline is discharged direct from barge into bulk station storage through a short 3-inch pipe line.

At Selma, located on the north bank of the Alabama River 259 miles by water from Mobile, a small river terminal was constructed about a quarter of a mile from the river. Facilities include a 4-inch line from river landing to the terminal, steel storage tank, pumping equipment, railroad siding and tank car loading and unloading facilities. The bulk station at Selma was dismantled and re-erected at the river terminal site with the addition of some tankage and modern equipment.

At Montgomery, a waterfront terminal was constructed on the south bank of the Alabama River, 332 miles by water from Mobile, six miles northwest of Montgomery and about three-quarters of a mile from the river. Facilities included a 4-inch pipe line and telephone



Tow Boat Dorothy and Barge J. S. Robertson

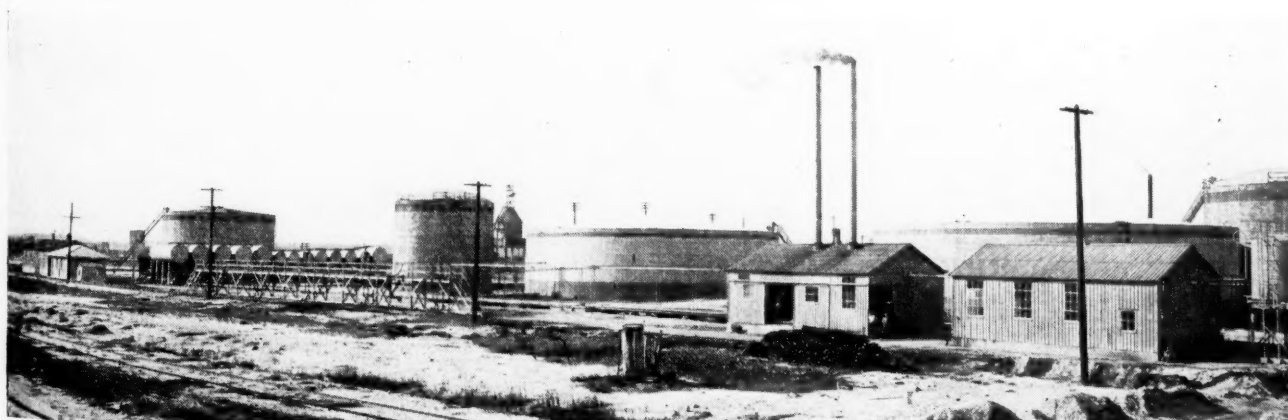
line from the river landing to the terminal, six steel tanks, pumphouse, pumping equipment, track loading platform, garage and dwelling. All movements are made from this terminal by tank trucks. Eventually the present bulk station in Montgomery will be dismantled and a new and modern plant erected at the terminal site.

At Birmingham, which is located on the east bank of the Warrior River, 417 miles by river from Mobile, and 25 miles northwest of Birmingham, it was necessary in order to secure a suitable location on a railroad to locate the terminal 1¼ miles from the river landing. Facilities included two 6-inch welded pipe lines and telephone line from the river landing to the terminal, 4 steel tanks, pumphouse and pumping equipment, car loading rack, garage and dwelling. Bir-

mingport is in a mountainous district and the construction of welded pipe lines and terminal facilities presented interesting engineering problems. Gasoline is moved from the Birmingham terminal to the Birmingham bulk station in tank cars by the Warrior River Terminal Co. and the Birmingham Southern Railroad.

Benzol from the Birmingham district may be unloaded from tank cars at the terminal, stored and loaded on barges for downstream movement to Mobile.

Steel storage tanks at terminals were furnished and erected by the Chicago Bridge & Iron Works, Birmingham plant, the steel being manufactured by the Tennessee Coal, Iron & Railroad Co., Birmingham. Four light draft steel barges for this service were fabricated by the Chicago Bridge & Iron Works, Birmingham, from steel turned out by



Ocean Terminal of the Pure Oil Co., Mobile, Ala.

the Tennessee Coal, Iron & Railroad Co., and assembled by the Alabama Dry Dock & Shipbuilding Co. at Mobile. The barges were designed by the Engineering Department of the Pure Oil Co., Chicago.

Gasoline is transported from Mobile and Tuscaloosa by a wooden barge on which have been mounted four horizontal welded steel tanks, and an electrically-driven unloading pump. A stern-wheel powered boat with a Fairbanks-Morse 45-horsepower Diesel engine is the tow boat. For service between Mobile, Selma and Montgomery a stern-wheel tow boat powered with a 100-horsepower Fairbanks-Morse Diesel engine is used to tow a light draft, all-steel, 125-foot barge. Between Mobile

and Birmingham the company is operating a tow boat powered with a 360-horsepower Fairbanks-Morse Diesel engine, three large steel barges being used in this service.

The Pure Inland Transportation Co., a subsidiary of the Wofford Oil Co., has been organized to own and operate the tow boats and barges. Executive and operating personnel includes: D. L. Gilland, president, Birmingham; O. M. Colston, vice-president and treasurer, Birmingham; L. L. Lord, vice-president and secretary, Birmingham; A. L. Christy, supervising engineer, Chicago; W. S. Bruce, traffic manager, Birmingham, and A. H. Blackledge, terminal manager, Mobile.



Montgomery Terminal of Wofford Oil Co.

### University Buildings Under Way

Austin, Tex.—Progress is being made on the construction of the Texas Union Building, Physics Building and Library for the University of Texas, for which P. O'B. Montgomery, Dallas, was recently awarded general contract at an aggregate of more than \$1,169,000. The first floor slab on the Union building is being poured, as are footings on the Physics building, while preparations are being made to excavate for footings on the Library building. Robert Leon White, Austin, is the architect for the Union building and Herbert M. Green, La Roche & Dahl, Dallas, are architects for the other two. Paul P. Cret, Philadelphia, Pa., is consulting architect on all of them. Subcontracts so far awarded on the three buildings follow:

**Drain tile**—Acme Brick Co., Fort Worth, Tex.  
**Ceiling inserts**—American Air Filter Co., Inc., Louisville, Ky.  
**Excavation and grading**—Tom Archer & Co., Fort Worth  
**Acoustical treatment**—R. V. Aycock Co., Dallas  
**Limestone for library**—Bloomington Limestone Co., Bloomington, Ind.  
**Reinforcing steel, mesh and hanger rods**—Concrete Engineering Co., Dallas  
**Erection of structural steel**—Walter De Feres Construction Co., St. Paul, Minn.  
**Access doors**—R. J. DeWees Co., Dallas  
**Millwork**—Enochs Lumber & Manufacturing Co., Jackson, Miss.  
**Waterproofing, dampproofing and caulking**—A. C. Horn Co., Dallas  
**Steel windows**—Hope's Windows, Inc.,

Jamestown, N. Y., successor to International Casement Co.  
**Lumber and lone star cement**—Kuntz-Sternenberg Lumber Co., Austin  
**Cork tile, rubber tile, composition tile, linoleum, etc.**—Dallas branch of Thos. Moulding Floor Co., Chicago  
**Anchor slot and brick, stone and terra cotta anchors**—Jas. S. Pitts, Dallas  
**Sand and gravel**—Robinson Sand & Gravel Co., Austin  
**Roofing and sheet metal**—C. H. Ruebeck Co., Waco, Tex.  
**Metal lath, corner bead, etc.**—A. Salisbury, San Antonio, Tex.  
**Limestone for Physics and Union buildings**—Texas Quarries, Inc., Austin  
**Finishing tile**—Jas. M. Thompson, Inc., Fort Worth  
**Metal doors and frames**—Variety Fire Door Co., Chicago  
**Marble and structural slate**—Vermont Marble Company of Texas, Dallas  
**Structural steel and iron**—Dallas branch of Virginia Bridge & Iron Co.  
**Slate blackboards**—Walcott, Maisey & Paige, Houston, Tex.  
**Iron, steel and ornamental metal**—Weaver Ornamental Iron Works, Dallas  
**Hollow metal windows and doors for Physics building**—Willis Manufacturing Co., Galesburg, Ill.

### \$5,295,000 Building Bid

Washington, D. C.—Low bid to erect an addition to the Department of Agriculture Extensible Building here was submitted to the Treasury Department, Jas. A. Wetmore, Acting Supervising Architect, by Aronberg-Fried Company, Inc., New York, at \$5,295,000. Construction under this contract does not include elevators.

## Domestic Sugar Refiners Present Their Case

American sugar refiners are asking for an increase in the tariff on refined sugar. B. O. Sprague, president of the Savannah Sugar Refining Corporation, calls attention to the fact that, in the Hawley-Smoot tariff bill, foreign refiners have been subsidized to the extent of 2 cents per 100 pounds over the American refiner and producer. With this favorable differential it is not surprising that our refined sugar imports have been steadily increasing. Mr. Sprague writes:

"Millions of dollars are spent each year by the refiners for American products in the operation of their refineries, and added millions are spent for payrolls for the men and their dependents that rely on the refining industry for their livelihood.

"Unless Congress gives the American refiners and the American producers a proper differential against the importation of foreign and colonial refined sugar, the sugar business will ultimately be transferred from the mainland to the islands and foreign countries, entailing a loss to American farmers, cotton mills, foundries, fuel producers, etc."

Citing the influence of Cuban refined sugar imports under present tariff conditions, Ralph S. Stubbs, vice-president of the American Sugar Refining Company, said:

"The fundamental principle of a protective tariff is to safeguard American industry against invasion of articles and commodities manufactured abroad by cheap labor. Prior to the Tariff Act of 1922, Cuba had exported sugar only in the raw state. Beginning, however, in 1925, a new industry sprang up which gained steady and active momentum. Cuba became a producer of refined sugar, more than doubling its production in 1928 as compared with 1927, and adding another 60,000 tons, or 1,350,000 bags, in 1929 to its 1928 production. The door had been left wide open for importation of refined sugar from Cuba.

"In framing the Tariff Act of 1930, Congress failed to consider these important changes in competitive conditions. This act increased the duty on Cuban raw sugar to 2.00 cents a pound, and to only 2.12 cents a pound on Cuban refined. As a result, the domestic refiner who must import approximately 107 pounds of raw sugar to make 100 pounds of refined, pays 2.14 cents in duty for every 100 pounds of refined sugar produced, as compared with 2.12 cents levied on Cuban refined. The results of this unfortunate maladjustment of the tariff were inevitable. By the end of 1931 importations of refined sugar into the United States from Cuba reached the alarming total of 320,987 tons, or the equivalent of nearly 7,200,000 bags."

The effect of this new competition was illustrated in the case of the American Sugar Refinery's Baltimore plant, of which Richard Mommers is the general superintendent. This refinery, erected about 10 years ago, is of most modern design and efficiently operated. The dis-

# What May the Farmer Do?

By E. C. Brooks, President, North Carolina State College, Raleigh.\*

tributive territory includes Maryland, Virginia, North and South Carolina. It is pointed out that Cuban refined sugar has access to the markets in this territory through the ports of Baltimore, Norfolk, Wilmington and Charleston. Freight rates on sugar into the major portion of Virginia and the Carolinas are materially lower from Norfolk, Wilmington and Charleston than from the refinery cities of Baltimore and Savannah. And Mr. Stubbs states that these freight savings are no negligible factor in the merchandizing activities of the Cuban refiners. Further, he said:

"It was but shortly prior to the tariff Act of 1930 that the refining of sugar in Cuba for export to the United States was begun on a large scale. The stress of these gradually increasing foreign importations, while felt, did not manifest their real and serious imprint on our Baltimore operations until 1929. We then began to see our normal business diminish; we saw the defection of customers and trade through the persuasive influence of lower prices and concessions in terms which, due to a non-protective tariff, we were unable to meet in any satisfactory or effective form."

Other sugar refining plants throughout the country are affected to a similar degree, and it is the belief of producers that, unless checked by a proper tariff adjustment, the domestic sugar industry faces disaster.

## Southern Gas Association Officers

New Orleans, La.—At the closing session of the ninth annual convention of the Southern Gas Association, the following officers were elected: J. J. Brennan, Memphis, Tenn., president; B. B. Ferguson, Portsmouth, Va., first vice-president; E. C. Dickey, Baltimore, second vice-president, and S. L. Drumm, New Orleans, secretary-treasurer. A new board of directors was elected as follows: C. E. Dougherty, Chattanooga, Tenn.; J. F. Orr, Houston, Tex.; W. L. Plummer and J. L. Johnson, Atlanta, Ga.; C. M. Rogers, New Orleans; J. W. Owens, Winter Haven, Fla.; George Park, Meridian, Miss., and E. B. Gamble, Birmingham, Ala.

## Hospital Building Bids Asked

Washington, D. C.—Bids will be opened May 31 by the Department of Interior, Jos. M. Dixon, First Assistant Secretary, for constructing a receiving building for males at St. Elizabeths Hospital, Washington, and moving, relocating and remodeling a shops building and tuberculosis buildings Nos. 1, 2 and 3. In addition to building construction, the work will include roads, retaining walls, walks, grading and drainage.

SINCE the farmer will not and should not go back to the economic life of a generation ago, if he retains any pride in his profession for himself and his family, and since he has little or no control over the major causes of his present decline, what may he do as a class to improve his condition? In other words, how can he pull himself up by his own boot-straps?

We should keep in mind that he is confronted with high interest rates, a restricted currency, not sufficient to carry industry, with little credit, and little demand for his commodities. It is necessary for him, therefore, to plan his future accordingly. Money crops no longer mean money to him. It is imperative that he plan to live on less money and on more home-produced commodities, that he seek markets for his surplus products at or near home, and avoid the cost of high exchange. Hence, the economic necessity of a new type of farm management. Our agricultural leaders have been urging for a number of years the need for better farm management, but the influence of banks, merchants, industry and commerce on single commodity production and money crops, has been too powerful for the farmer to make much headway. Bankers are learning better today, but not until they too were in distress.

This new business management will require diversification, balanced production, better distribution of labor, better seed and stock, and a considerable reduction in the need for buying the necessities of life. The farm should be treated as a business unit.

## Some Show the Way

A limited number of farmers in every Southern state are proving, even in these times, that a farm, properly organized and managed, may be made profitable. We have not given sufficient prominence to the farmer who is successful.

Land is the major part of the capital stock of the farmer. Soil building, soil

enrichment, and soil classification are possible without the expenditure of large sums of money. But they do require the application of science and more knowledge than the average farmer employs today. The Master Farmer throughout the South suggests a group who plan wisely, borrow carefully, and respond to the best business methods.

I believe that our agricultural colleges should set up one major curriculum looking to the farm as a unit, and by utilizing essentials from every other department of the college, the college teachers, students, research specialists and extension agents, should utilize those farms today and those cooperative units which have demonstrated that a farm and a farm organization can be made to pay.

We have been interested in diversification, or a live-at-home program as an emergency measure. Agriculture must thrive, if it thrives at all, on small profits. Moreover, the farmer can no longer pay the great cost of distribution of goods and have any profit; yet it is necessary for him to buy gasoline, keep up roads, support schools, maintain new machinery and preserve a fair standard of living. The costs of maintaining these standards were not so high a generation ago, and yet agricultural products are selling today below the prices of a generation back. Through the help of these new agencies, the farmer is producing approximately twice as much as he used to produce; and this is the hope, that if his production is properly balanced and he can avoid the high costs of distribution, he may live well, have a small profit and preserve the best in our rural life. This is already being demonstrated today, just as the depression is at the lowest point in history.

Finally, this depression clearly indicates the need of a new education and a new leadership that will be helpful in broadening our sense of honesty, in working out a new basis of cooperation in government, business, industry, and in agriculture, so that the safety of our people may be threatened less by speculation and made more secure through the development of a greater confidence in our institutions among all classes of people.

\*Excerpts from a brochure by Dr. Brooks on "How Shall Agriculture Survive the Depression," published as a supplement to the April State College Record.



# LETTERS FROM OUR READERS

## Federal Expenses Must Be Reduced

The Erwin Cotton Mills Company  
Durham, N. C.

*Editor Manufacturers Record:*

We are writing to congratulate you on your stand for reduction of expenses of the Federal Government. It is extremely disappointing to us, and we are sure to all business, to note Congress' apparent lack of desire to reduce these expenses, and its failure to recognize the necessity for doing so. There is nothing that will encourage business to go forward more than recognition by Congress and the administration of the vital necessity for reducing Federal expenses, which have increased at an appalling rate.

K. P. LEWIS,  
President & Treasurer.

## Cost Bidding and Bid Shopping Are Twin Evils

D. J. Phipps  
General Contractor  
Roanoke, Va.

*Editor Manufacturers Record:*

Too much publicity cannot be given to your campaign for firm bidding, and the sooner the industry as a whole recognizes that cost or under-cost bidding and bid-shopping lead to but one end and tend to keep the industry in the deplorable state into which it has fallen, the better for all concerned.

I am in thorough accord with your ideas, for nothing that I know of will have a greater tendency to bring the industry back to a healthy condition than the honest practice of firm bidding by contractors, sub-contractors and material dealers.

D. J. PHIPPS.

## Continued Price-Cutting Demoralizes Business

Leonard Frank  
Orlando, Florida.

*Editor Manufacturers Record:*

We hear a lot these days about depression and that the people should have confidence. Yet any man in business knows that if he buys an article today, next week he has taken a loss for a certain percentage, and if he wants to avoid a loss he must sell his goods at once.

If manufacturers do not stop their price-cutting and their cut-throat business, they not only are going to break their own competitors, but will break every jobber and merchant in the country who has on hand any sized stock that is a few months old.

There is no use in cutting prices, as the cut is no incentive to buy more goods. People will buy only so much now, what they need, whether it costs a few cents or a few dollars. They are

looking for yet lower prices, that is why we cannot sell and why the jobber, merchant and consumer lack confidence.

Let manufacturers stop their price-cutting and get down to business and if anything raise their prices five per cent, and you will see business come back a lot sooner. I hope some of our big business managers and sales managers will appreciate this point.

LEONARD FRANK, JR.

## Believes in Florida Sunshine and the Potency of the Ballot

Sarasota, Fla.

*Editor Manufacturers Record:*

I have long been a subscriber to the MANUFACTURERS RECORD. As an introduction, let me say that after a very active life as an executive of several large oil producing corporations in Texas, West Virginia and Pennsylvania, I have retired to Florida, my native state, and now at 64, boast an income cut to less than one-fourth of normal and taxes are higher than ever. However, I do own a piece of this Florida climate and that is one thing the political racketeers, the technical lawyers, Congress and the rest cannot depress or change. I think I will continue to soak up this sunshine, make a living out of the soil for the few years that are left to me, and let the world go hang.

The country is not suffering from over-production or underconsumption and we are not producing too much food. We are being wrecked by too much government, too much meddling in private business. The moment the Government takes a hand in business, dozens of commissions are created, and there is a grand scramble for some of the brown gravy.

Why should this Government be forever meddling with European affairs? The people of America will find themselves even worse off than the Europeans if the present policy of our Government, our bankers and our industrialists is continued. The men we now have in our legislative halls were put there by the people who vote. The obvious remedy for present conditions is the ballot. If the clear-thinking, level-headed men and women of this country will go to the polls and use their influence on the people with whom they come in contact, we will have an effective government and such a thing as a depression will not bother us. The Government could then devote itself to law enforcement, a protective tariff, the problems of immigration, and to the national currency.

What this country now needs is an aroused citizenry, who, through the ballot, will drive out this horde of office-holding parasites, this gang of tax-levying political racketeers, not only in the Federal Government, but in every State, county and municipal subdivision. And the problem is just that simple. All the people need do is to keep both feet on the ground, think for themselves, be clean and honest and vote.

J. A. MAHES.

## "Financing Small Industries"

Hannah & Simrall  
Attorneys and Counselors  
Hattiesburg, Mississippi.

*Editor Manufacturers Record:*

Your article on "Financing Small Industries" was highly interesting.

As a result of many years active work in the local Chamber of Commerce, I came, a few years ago, to the very definite conclusion that organizations of this type offer the greatest opportunity for community development.

The average small industry that needs additional capital needs management counsel all the more. In other words, my observations have led me to the conclusion that the need of capital by many small industries has been brought about by lack of proper management. Certainly, the inability to borrow needed capital is due to lack of proper management. And in many instances, this lack of proper management is due to inexperience.

With this end in view, I drafted the outlines of a proposed "Investment and Management Counsel Corporation," only a short time before the present financial crash. This proposition, like many others, has lain perfectly dormant since the cyclone struck.

T. C. HANNAH.

## "Broaden the Tax Base"

T. W. Parks & Son  
Hallison, N. C.

*Editor Manufacturers Record:*

I have read with interest your editorial "Broaden the Tax Base." I believe our government will have to come to this before we get out of the mud. They cannot balance the budget and yet exempt over 95 per cent of the people.

I believe the income tax exemption should be lowered to \$500 for a single person and \$1000 for married people. A majority of our people are making less than that amount, so why not let the smaller percentage, who are making more than this amount, pay an income tax? Also, put a small tax on all manufactured goods, to be paid by the manufacturers; they could pass it on, and everybody would be paying a small tax.

Why tax corporations to death? If they exist they have to make a profit. We have to have large corporations, and as long as they make a profit they will give people employment. Then, the government could if it would collect taxes from the employees. On the other hand, if corporations are burdened with taxes to the point that they cannot make a profit, they no longer give employment and we are in an even more desperate condition.

So long as Congressmen and Senators try to please the masses simply in order to get their votes we will not be on sound, permanent basis.

O. T. PARKS.

# IRON, STEEL AND METAL MARKET

## A Slight Increase in Production of Steel

Pittsburgh, May 16—[Special.]—Steel ingot production in the last two weeks has been at fully 22 per cent of capacity, representing a slight increase. Production in April was at a rate of approximately 15,000,000 tons a year, or about 21½ per cent of capacity.

Increased steel production in the last fortnight is attributable entirely to a sharp increase in requirements of the Ford Motor Company and a slight increase on the part of one or two other makers of low priced cars. Makers of higher priced automobiles have been taking little steel at any time lately, having scarcely any sale for their cars.

The sum total of steel demand outside the automobile industry has undergone no increase and there are no individual lines showing distinct increases. Demand on the whole is simply pegging along at a low rate. It is of highly miscellaneous character, for the large lines of consumption, which can be viewed individually, are not taking their former percentages of such steel as is being made. The railroads, which in recent years accounted for 15 to 25 per cent of all steel, are taking only a very small per cent. Fabricated structural steel work, despite the large amount of Federal building, is taking approximately 6 per cent, against about 10 per cent in 1930 and about 8 per cent in several preceding years. Dwelling house construction, ordinarily accounting for quite a tonnage of pipe, sheets, nails, etc., is taking almost nothing. Numerous other lines are doing better than those mentioned, and are doing better than steel in general.

Steel makers look to Washington for developments which would bring about an improvement in demand. They hold that the banking situation is in essence very greatly improved but that actual release of funds awaits proof that Congress desires to and can balance the Federal budget. Even at that no very marked increase in steel demand would be expected this side of August or September, it being traditional in steel that recovery from depression cannot begin at this time of year or in summer and, by the steel trade view, June, July and August constitute summer.

Finished steel prices are being held very well and apparently with no difficulty. There is no thought of any decline by reason of the 15 per cent wage reduction going into effect today.

The cold finished steel bar trade is

issuing a new card of extras, dated today, the prime object of which is to eliminate price distinctions by classes of consumers and put all buyers of equal tonnages on exactly the same basis. The new base price is 1.70c, replacing a nominal base price of 2.00c, shaded to 1.90c or less to some buyers. The minimum price applies only to 10,000 pounds of one size and one grade, shipped at one time to one destination, there being a scale of extras for smaller quantities, down to 300 pounds and less, this replacing the existing 4000 pound pivotal point.

## Metal Prices Fluctuate

New York, May 16—[Special.]—Price trends of the metals were mixed over the past week. Silver prices kept advancing while zinc and copper dropped to a new all-time low. The price of lead has been unchanged since March 23. The better prospects for a duty on copper just now have not stimulated the copper market as did such a proposal in the case of rubber.

The tin market fluctuates very erratically. At the middle of the week it became buoyant on the news that the Chinese producers of Malaya would join the restriction of production plan, a group of producers which heretofore has not joined in such corrective measures. The international zinc cartel met at Brussels on Thursday to plan further curtailment of production of that metal, but this action did not stem the tide of declining zinc prices in the United States.

Industrial conditions generally are about the same. Operations in the steel industry are steady at 24 per cent of capacity. Automobile production in April is estimated to have gained 15 per cent over March, though was 58 per cent under April of last year. Such production for the year to date has been 51 per cent under that for the corresponding period of 1931.

Tin plate production has declined to 45 per cent of capacity as against 50 per cent ten days ago, but the loss in tin consumption in this line is offset by the continual rise of such consumption in the automobile industry which uses tin with other metals in bearings.

The copper market has been exceedingly dull. Two more North American copper producers have announced impending shutdowns in line with the curtailment agreement. The Inspiration Consolidated Copper Co. in Arizona will close for an indefinite period, while the

Sherritt-Gordon Mines in Manitoba will close in June for at least 90 days. In some cases the copper shutdowns are in line with the curtailment agreement and in other cases because of their own economic conditions. By Thursday the price of copper had dropped to 5½ cents per pound, the lowest on record.

Business in lead has been very quiet during the past week in contrast to other recent weeks. However consumers have bought their May requirements to the extent of 80 per cent while 50 per cent of June needs are under contract. Prices are the same at 3c per pound, New York, and 2.90c, East St. Louis.

Slab zinc is the lowest ever at 2.40c per pound, East St. Louis, while the common grade of zinc ore is down \$2 per ton at \$14, the lowest in 35 years. There is talk of complete suspension of zinc ore production during the summer.

## Birmingham District Notes Some Activity

Birmingham, May 16—[Special.]—Scattering orders of varied nature coming to the iron and steel interests now give more encouragement. A little activity is spreading. Calling back to work of 250 and more men in the cast iron soil pipe industry has had effect, the Central Foundry Co. now operating its Bessemer plant on partial schedules, three days a week, while the Goslin-Birmingham Manufacturing Co. has several of its floors in the soil pipe department at work and other plants are receiving a little business which is taken to mean further necessity for production.

Machine shops of the district have received notice that bids on some of the big projects which recently were referred to as likely to provide work and take tonnage have been given favorable consideration. The Goslin-Birmingham plant will turn out a considerable amount of machinery and other work on the Madden Dam project in Panama, upwards of 840 tons of iron and steel to be used in the first work. Several months time will be given on this contract. Other machine shops have word that their bids have been favorably received but the tonnage is not made public.

The Ingalls Iron Works Co., which recently developed a marine division in its steel fabricating shops here, announced another contract for a dredge for the government, "Sam Houston," to have upwards of 400 tons of steel and to be a boat with two decks and capacity



for 50 sailors. This company a few days since shipped a dredge with 750 tons of steel from the Chickasaw Shipbuilding Co. plant at Mobile to South America and not long ago built a steel launch for use at Memphis by the government. Other work in this line is anticipated.

The small drum works of the Ingalls Company has also received additional contracts and the plant will be able to keep active for a long time. Plans for development of this shop are still being considered and before the end of the year, if the prospects develop, there will be actual need for greater facilities.

The steel mill operations based on ingot production in the Birmingham district have been kept at around 45 per cent capacity, the Gulf States Steel Company continuing two open hearth furnaces and the Tennessee Coal, Iron & Railroad Company nine open hearths at Ensley-Fairfield. The Ensley Works continues rail rolling on limited schedule.

Salary and wage adjustments go into effect with iron and steel corporations this week which will further reconcile the parity in production and earnings from sales. These readjustments are around 15 per cent on salaries with a lower percentage on wages.

### Motor Freight Terminal

Dallas, Tex.—Southwest Terminals, Inc., have awarded contract to Henger & Chambers Co., Dallas, for construction of motor freight terminals, 72 by 550 feet, of structural steel, brick and concrete. The building is estimated to cost \$120,000 and equipment \$30,000. E. C. Martin is the architect, and Frank W. Chappell, engineer, both of Dallas.

## A Savannah-Manufactured Trailer

The "Great-Dane" trailer here illustrated was manufactured by the Steel Products Company, Inc., of Savannah, Ga., and delivered recently to W. L. Muse, Savannah, wholesale fruit and produce dealer, who trucks his goods from lower Florida to Savannah, Charleston, S. C., and other cities in the territory.

The trailer has a capacity of 8 tons payload and is said to meet all motor vehicle regulations. The power unit is a Chevrolet truck, equipped with a sleeper cab for relief crew, and carrying an extra gas tank with a capacity of 100 gallons. It also is fitted with a radio receiving outfit.

In June last year, the Steel Products Company filled an order for two trailers for the Cummings Transportation Co., which operates a freight line between Savannah and Charleston. Since then it has

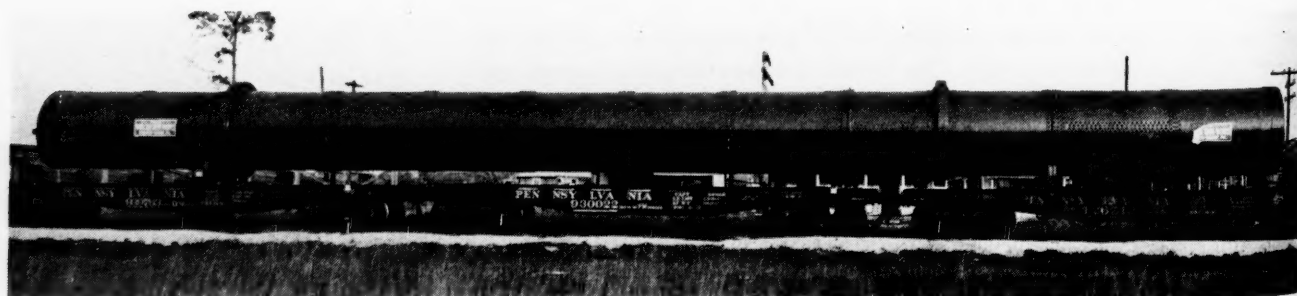
made and delivered over 100 trailers of all types and sizes, some with insulated bodies for hauling perishables; one is an aluminum and duralumin van trailer, the weight of which is about 1½ tons less than that of a trailer of the same size and capacity built of other materials. The company is now preparing to build its first tank-trailer job, designed to haul 2,000 gallons of gasoline behind a light 1½-ton truck, with a view to providing the utmost in economy.

One of the company's customers in Atlanta operates three "Great-Dane" trailers for delivering paper boxes. With this equipment, deliveries are made to plants in North Carolina and the surrounding territory on overnight schedules. Moreover, it is said that a careful cost accounting shows a profit, after allowing for all costs and after depreciating each unit \$5 daily.



This  
Trailer  
Has a  
Pay-Load  
Capacity  
of  
Eight Tons

## Unusual Shipment of Large Cylinders



Two 110-foot rotary cylinder lime kilns, one of the largest shipments and one of the most unusual ever handled on the Gulf, Mobile & Northern Railroad and the New Orleans Great Northern Railroad lines, were delivered last month to the Bogalusa Paper Company at Bogalusa, La. Each giant tube, 7½ feet in diameter and weighing 55 tons, was placed on three flat cars and secured to the end cars by a steel cable at each end, each cylinder resting on blocks which pivoted on rollers. With the middle car riding free, the cars took the curves without difficulty. Trainmen who handled the cylinders commented on the ease with which the load rode.

While the orders called for reduced speed, the shipment made good time, arriving at Bogalusa on the tenth day out of Wilkes-Barre, Pa., where the cylinders were produced by the Vulcan Iron Works.



# CONSTRUCTION DEPARTMENT and NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Construction Bulletin gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

## Airports, Airplane Plants, Etc.

Ark., Little Rock—See Want Section—Bids Asked.

Ga., Atlanta—Eastern Air Transport, H. A. Elliott, V. P., Gen. Mgr., reported, leased portion of Candler Field for constructing \$40,000 shop on site 100x200 ft.; plans being drawn; install \$15,000 machinery.

La., New Orleans—Bd. of Levee Comms., Orleans Levee Dist., A. L. Shushan, Pres., 606 Common St., receives bids May 27 for constructing and placing materials for approximately 3000 ft. of fascine mattresses ballasted with rock as subaqueous protection work at outer end of Shushan Airport, Lake Pontchartrain. Following estimating: Mattress Protection Work—Walter P. Villere, Godechaux Bldg., and Scott & Bros., Maritime Bldg., both New Orleans; R. S. Levy & Co., Empire, La.; Earth Work—Concrete Construction Co., 1204 Desire St.; E. L. Garretson, 3201 Maurepas St.; Orlando & Gallo, 8330 Willow St., and A. Giambelluca, 2721 S. Roman St., all New Orleans. John Klorer, Ch. Engr. Orleans Levee Bd. 5-12

La., New Orleans—Jones & Laughlin Steel Co., Pittsburgh, Pa., has contract for 500 tons shapes, bars and miscellaneous steel for Shushan Airport. 5-12

Tex., Big Springs—American Airways, Inc., Jesse Maxwell, Local Representative, leased airport; company is subsidiary of Aviation Corp., 122 E. 42nd St., New York.

Va., Richmond—Bd. of Aldermen considering purchase 306 acres adjoining Byrd Airport for expansion flying field.

## Bridges, Culverts and Viaducts

### Proposed Construction

Fla., Clearwater—L. K. Cannon, Asst. Highway Engr., State Road Dept., Tallahassee, Fla., advises no action has been taken regarding rebuilding Stevenson's Creek bridge. 5-5

Kentucky—State Highway Comsn. receives bids for 3 bridge projects. See Roads, Streets and Paving.

La., Natchitoches—Natchitoches Parish Police Jury, W. H. Airey, Pres. Protom., opens bids June 6 for Jim Island bridge, joint bridge between Natchitoches and Red River Parishes.

La., Tallulah—Madison Parish Police Jury, P. O. Benjamin, Engineer in Charge of Parish Roads, opens bids June 1 for 24-ft. extension at both ends of Lick Bayou steel bridge, of creosoted pile and creosoted timber construction.

MARYLAND—State Roads Comsn., L. H. Steuart, Sec., Baltimore, opens bids May 24 for 2 bridges and 2 jetties in following counties:

Anne Arundel—conc. floor and work on approaches for single 200-ft. span, 27-ft. roadway, bridge over Patuxent River, road from Upper Marlboro to Mt. Zion, known as Hill's bridge, AA-121-1-27;

Frederick—conc. bridge floor and surfacing on approaches for double 108-ft. span, 27-ft. roadway, bridge over Monocacy River,

road from Rocky River to Detour, known as Miller's bridge F-159-1-57;

Worcester—2 jetties at Ocean City, one at Somerset St., other at Division St., Wo-120-1019.

Maryland—State Roads Comsn. has low bids for 4 bridge projects. See Roads, Streets and Paving.

Miss., Columbus—Lowndes County Supvrs., H. L. Bailey, Clk., open bids June 6 for creosote pile and timber bridge over Catalpa Creek, Mayhew road, Dist. 5.

Oklahoma—State Highway Comsn. has low bids for 19 bridges. See Roads, Streets and Paving.

TEXAS—State Highway Comsn., G. C. Wickline, Bridge Engr., Gibb Gilchrist, Highway Engr., Austin, opens bids May 26 and 27 for 10 bridge projects, est. cost \$600,000, in the following counties:

Bexar—Guadalupe—conc. and steel structures over Salado and Cibolo Creeks;

McCulloch—steel, conc. bridge over San Saba River;

Jefferson—steel, conc. bridge over Intracoastal Canal, near Port Arthur;

Shelby—timber structures over Tenaha Bayou;

Falls—steel, conc. structure over Big Creek;

McLennan—rein. conc. structure over Harris Creek and culverts;

Jeff Davis—Reeves—large rein. conc. structure;

Hemphill—steel, conc. structure over Washita River and culverts;

Pecos—rein. conc. structures;

Sutton—rein. conc. structures.

Texas—State Highway Comsn. plans 6 bridge projects. See Roads, Streets and Paving.

Va., Richmond—City, Dept. of Public Wks., Col. R. Keith Compton, Dir., and Richmond, Fredericksburg & Potomac R. R. Co., E. M. Hastings, Ch. Engr., Richmond, have plans ready by June 1 for Lombardy St. underpass; tentative plans, completed by engineering dept. of railroad, being examined by director of public works; railroad then complete working drawings and advertise project for bids; railroad to bear ¾ of \$65,000 cost. 1-28

### Contracts Awarded

Alabama—Virginia Bridge & Iron Co., Roanoke, Va., has contract to fabricate 145 tons steel and build bridge for heavy traffic over Short Creek, east of Birmingham on railroad of Warrior River Terminal Co., Watts Bldg., Birmingham, railroad owned and operated by Inland Waterways Corp., Washington, between Birmingham and port on Warrior River; to be completed by July 15.

North Carolina—See Roads, Streets and Paving.

## Canning and Packing Plants

Tex., Crystal City—LaSalle Canneries, Inc., J. Bayer Bell, Pres., let contract to J. J. Peters Co., Cotulla, for addition to vegetable canning plant; corrugated iron; conc. floors; iron roof; install canning machinery.

W. Va., Huntington—Pioneer Packing Co., capital \$50,000, incorporated; F. L. Schoew, Union Bank Bldg.

## Clayworking Plants

Ga., Augusta—Babcock & Wilcox Co., 85 Liberty St., New York, A. M. Kohler, Local Mgr., Savannah Rd., reported, enlarging plant, increase capacity by 75 per cent; materials being shipped from East Liverpool, O. plant.

W. Va., Weston—C. A. Bochart Co., East Weston, reported, rebuild burned glassware plant; 1 story; 70x150 ft.; install \$45,000 equipment for glass decorating.

## Coal Mines and Coke Ovens

Tenn., Sequatchie—Black Diamond Coal Co., Whitwell, constructing 3 reservoirs, install sprinkler system.

## Concrete and Cement Plants

Mo., Sedalia—Raymond Slaton, 16th St. and Carr Ave., erect concrete and tile plant Highway No. 65.

## Drainage, Dredging and Irrigation

Fla., Allenhurst—U. S. Engr. Office, Jacksonville, opens bids June 1 for removing approx. 32,052 cu. yd., place measurement, of rock and soft materials from Haulover Canal, part of Intracoastal Waterway, at Allenhurst, and constructing dikes to extend that canal.

Fla., Miami—W. T. Price Co., Inc., 3200 S. W. 27th Ave., applied to U. S. Engr. Office, Jacksonville, for War Dept. permit to dredge rock and sand from Biscayne Bay 500 ft. east of point of Dinner Key for use in constructing foundation of proposed Coast Guard aviation unit hangar at the key.

La., Jennings—Jefferson Davis County Gravity Drainage Dist. No. 1 votes June 21 on \$12,000 bonds for enlarging district and to provide for irrigation works to take care of enlarged district; E. A. Lyon, W. M. Buchanan, C. C. Potter, R. B. Johnson and J. M. Pettijean, comms. of district.

Miss., Gulfport—War Dept., Washington, D. C., approved immediate allocation of \$30,000 for emergency dredging work on Gulfport Harbor and Ship Island Pass.

North Carolina—Virginia—U. S. Engr. Office, Wilson T. Howe, Engr., Chief, General Engineering Div., foot of Front St., Norfolk, advises it is expected that plans will be completed soon for dredging in Dismal Swamp Canal, Va., and N. C. 5-12

Tenn., Memphis—Secretary of War recommended to Congress that \$1,738,000 be expended for improving Wolf River, Memphis, where it runs into Mississippi; proposed 9-ft. channel is to extend about 4 mi. in all from mouth of Wolf River to North Second St. road, with bottom widths of 250 ft. from mouth of river to Koel Ave. and 300 ft. from Koel Ave. to North Second St. road; est. cost of up-keep, \$64,000.

Tex., Freeport—Maj. Gen. Lytle Brown, Chief of Army Engrs., Washington, recommended to Congress alteration of Freeport harbor project by providing channel from gulf 32 ft. deep, 300 ft. wide to jetty entrance and thence 30 ft. deep and 300 ft. wide to turning basin at Brazosport; est. \$226,500, with \$1000 annually for maintenance.

## Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Jacksonville—Alabama Public Service Comsn., Montgomery, took under advisement petition of Jacksonville Public Service Co., for approval of sale of electric system in Jacksonville to Alabama Power Co., Birmingham.

La., Barksdale Field, Shreveport, La.—Capt. Geo. E. Lamb, Constructing Q. M., received low bid from John T. Maple, Fairbury, Ill., at \$13,400 for series of street lighting systems. 5-5

Okla., Idabel—City, F. D. Taffe, Engr., has not completed plans and estimates for proposed electric plant; date not set for election. 5-12

S. C., Fort Moultrie, Charleston—Mill and Marine Electric Co., Gastonia, N. C., has contract for electrical distribution and street lighting system for War Dept. 4-21

Va., Culpeper—Virginia Public Service Co., Charlottesville, will rebuild burned plant. 5-12

Va., Quantico—See Want Section—Bids Asked.

Va., Roanoke—Lincoln R. Clark, of Pam & Hurd, 231 N. La Salle St., Chicago, Ill., attorney, representing a bondholders committee, acquired properties of Southern Public Service Co., including cold storage plant on Wasena Ave., Wasena, ice and cold storage plant formerly known as Griggs Packing Co., Franklin Rd. and ice and cold storage plant at Salem.

## Flour, Feed and Meal Mills

Fla., Jacksonville—H. H. Buckman, Pres. Buckman & Co., Consol. Engrs., Hildebrand Bldg., Jacksonville, and managers for American Eisgas Corp., announced agreement consummated between American Eisgas Corp., John Love Wilkes, Pres., Jacksonville, and Crocker-Wheeler Electric Mfg. Co., Ampere, N. J., for manufacture of Eisgas machines and parts; machines to be assembled and marketed in Jacksonville; company manufactures gas generating machines for homes, air conditioning of homes, etc.

Va., Christiansburg—Little River Milling & Grain Co., East Radford, R. F. D., C. S. Thompson, Pres., erect 50 hbl. capacity flour, meal and feed plant at Grayson Town, replacing burned plant; 36x48 ft., wood frame, metal roof; install \$10,000 equipment. See Want Section—Building Materials and Equipment.

## Foundry and Machine Plants

N. C., Ronda—Williams Mill Co., capital \$25,000, incorporated; A. M. Church, manufacture machinery.

## Garages and Filling Stations

D. C., Washington—W. F. Hummer, 802 B St., N. E., erect one story, 45x65 ft., brick garage at 8th and B Sts., N. E.; C. H. Sorrell, 244 7th St., S. E.; F. E. Hickman, 230 15th St., N. E.; William Gore, 5141 25th St., and W. L. Belt, 1524 Allison St., estimating.

D. C., Washington—Samuel J. Prescott Co., 814 13th St., has contract for garage addition, 9th and H Sts., for G. W. Forsberg; 1 story, 60x85 ft., brick, conc. and steel sash.

D. C., Washington—R. M. Briscoe, 1315 H St., Archt., preparing plans for public garage 30th and M Sts., for Harry A. Ollker, 1420 K St., N. W.; 1 story; brick, conc.; steel sash; tile roof.

Fla., Tallahassee—Williams Battle Motors, Inc., chartered; A. W. Williams, T. R. Battle.

Md., Baltimore—Standard Oil Co., St. Paul & Franklin Sts., let contract to Ehrhardt & May, 5723 Harford Rd., for grading for filling station, Belvedere Ave. and Falls Rd.; plans ready for bids soon.

N. C., Asheville—Street & Swinson Motor Co., Inc., capital \$25,000, incorporated; E. S. Street, S. W. Street, Sam Swinson.

N. C., Charlotte—Thomas Cadillac-Oldsmobile Agency, G. C. Thomas, Pres., S. Tryon St., plans erecting building in business center.

N. C., Rocky Mount—Flake B. Chipley, Inc., capital \$50,000, incorporated; Flake B. Chipley, L. B. Hoggard.

Okla., Muskogee—Grimes Gasoline Co., Wm. Reynolds, Dist. Mgr., erect \$20,000 filling station 4th and Okmulgee Sts.

Tenn., Memphis—Specification Motor Oil System of Memphis, Inc., chartered; J. A. Chambers, 2019 Waverly St.

Tex., Henderson—DeFee & White, Archts., Henderson, and Merchants & Mfrs. Bldg., Houston, completing plans for part 1- and 2-story, 48x100 ft., rein. conc., brick and fireproof garage, sales and office building, for C. W. Rettig; soon call for bids.

Tex., San Antonio—Summers Tire Co., Inc., chartered; C. H. Summers, 1827 W. Magnolia St.

Tex., Troup—Troup Motor Co., incorporated; T. E. Swann, J. B. Bradshaw.

Va., Alexandria—Arrow Service Stations, Inc., capital \$25,000, incorporated; Ralph A. Doss, Clarendon.

## Gas and Oil Enterprises

Fla., Palmetto—Gulf Refining Co., let contract to F. K. Webb and Bradenton Dredging Co., to rebuild dock on river front, lately destroyed by storm; 600 ft. long and 10 ft. wide to pier head which will be 40x100 ft.; build frame pumping station.

La., DeRidder—DeRidder Development Co., capital \$16,000, incorporated; Lee Nichols, Frank E. Powell.

La., Shreveport—R. L. Crook, 1042 Sheridan Ave., erecting gasoline plant in John Ruddle survey Gregg County; cost \$40,000.

Md., Baltimore—Blue Ridge Oil Co., 108 E. York St., chartered; H. Hanson McKenney, Charles Delph.

Mo., St. Louis—Laclede Gas Light Co., E. P. Gosling, Pres., 1017 Olive St., erecting 1-story building, with 1000 square feet of floor space, at 328 Catalan St., near company's coke plant, for gas mixing plant; also install mixing equipment in plant at 148 Rutger St.; cost of buildings, machinery and equipment, piping and installation, \$75,000.

Okla., Oklahoma City—Transcontinental Oil Co., incorporated; H. J. Scott, 1500 W. 24th St.

Okla., Oklahoma City—Weccacoe Oil Co., incorporated; E. F. McClosky, Sr., 2131 N. W. 17th St.

Okla., Seminole—Seminole Gas Co., recently noted incorporated by R. N. Chase and associates, granted 25-yr. gas franchise, 3-31

Okla., Tulsa—Almeda Oil Co. of Tulsa, capital \$300,000, incorporated; E. B. Reeser, 1012 E. 18th St.

Tenn., Clifton—Southern Gas & Oil Co., capital \$100,000, incorporated; T. F. Hassell, R. M. Hughes.

Tex., Burkburnett—S. & S. Drilling Co., incorporated; G. C. Holcomb, H. M. Harrington.

Tex., Dallas—Gaynita Oil Co., incorporated; J. P. Dreihelbin, First Natl. Bank Bldg.

Tex., Houston—Suema Oil Co., incorporated; T. I. Larson, Esperson Bldg.

Tex., Kilgore—Harcher Oil Co., incorporated; Roy H. Laird, J. Preston Parker.

Tex., Longview—Arkansas Producing Co., incorporated; E. C. Johnston, G. H. Speary.

Tex., San Antonio—Jeffries-Lambeth Drilling Co., incorporated; M. G. Jeffries, 622 Maverick St.

Tex., Temple—Temple Production Co., incorporated; R. T. Wilson, M. Watson.

## Ice and Cold-Storage Plants

Ga., Atlanta—George Braungart, Jr., Mech. Engr., 1516 Jonesboro Rd., constructing 50-ton ice plant on McDaniel St. corner Glenn St., S. E., for Knight Ice Co.; contract for building let to T. G. Wesley & Son, Red Rock Bldg.; will complete soon; machinery contract let to York Ice Machinery Corp., York, Pa.; buildings will be of brick and steel; 1 story, 82x66 ft., conc. foundations, steel sash, built-up roof. 5-12

Ky., Raceland—Tri-City Ice Co., capital \$15,000, incorporated; W. H. Williams, Don Race; will operate Raceland Ice Co.

N. C., Greensboro—Lincoln R. Clark, of Pam & Hurd, 234 N. LaSalle St., Chicago, Ill., acting for Chicago interests, acquired 4 ice plants, 2 in Greensboro and 2 in Gastonia, properties of Southern Public Service Co.

## Land Development

Ark., Little Rock—McCaskill, Inc., chartered; Oscar McCaskill, 908 W. Fourth St.

Fla., St. Petersburg—City, Wilbur M. Cotton, City Mgr., considering development of playground on Bartlett tract on south side.

Ga., Macon—Home Realty Co., incorporated; J. W. Ramsey, 201 Boundry St.

Ky., Covington—See Water Works.

La., New Orleans—Jouett Realty Co., Inc., capital \$30,000, incorporated; Charles Rivet, Canal Bank Bldg.

Md., Baltimore—Eager Realty Co., Inc., 9 E. Eager St., incorporated; Henry C. Colson, Wilbur S. Lee.

Md., Baltimore—Lafayette Realty Co., Inc., 1829 Edmondson Ave., incorporated; H. Elmer Mules, Leonard H. Volkert.

Md., Prince Frederick—Long Beach Co., Inc., Metropolitan National Bank Bldg., Washington, D. C., and John B. Gray, Jr., Calvert Hotel, Prince Frederick, developing 170 acres with beach front of 3000 ft. on Chesapeake Bay in Calvert County; clearing roads, laying out building sites, etc.; extending \$35,000. 4-28

Mo., Joplin—Reding's Mill Golf Club, capital \$15,000, incorporated; Corry Meeker, C. D. Christman.

Mo., St. Louis—Realty Service Corp., 3062 Olive St., incorporated; Paul V. Deames, Newcomb Hotel, Quincy, Ill.; True D. Morse, 621 Pearl Ave., Kirkwood.

N. C., Raleigh—Cobb Realty Co., capital \$100,000, incorporated; J. R. Sechrest, 602 W. Morgan St.

Okla., Oklahoma City—J. R. Rowlett, 2324 S. W. 27th St., Chrm. Golf Committee, form association, build golf course at Southwest Park.

S. C., Charleston—Carolina Realty Corp., incorporated; Clarence B. Schachte, W. F. Ostendorff.

Tex., Dallas—Houghton, Inc., chartered; S. J. Houghton, Jr., 2809 Ross St.

Tex., Dallas—Pat Boyd Co., Inc., chartered; Patrick J. Boyd, S. W. Life Bldg.

Tex., Dickinson—J. M. West, Houston, acquired 5600 acres in Galveston County, west of Dickinson.

Tex., Genoa—Genoa Cemetery, incorporated; H. W. Boehm.

Tex., Houston—Richmond Realty Co., incorporated; J. H. Wynne, 1201 Capitol St.

Tex., San Antonio—Sexauer Realty & Investment Co., Inc., chartered; G. Sexauer, Central Bldg.

## Lumber Enterprises

Florida—Forest Managers, Inc., S. J. Hall, Pres., 1407 Barnett Natl. Bank Bldg., Jacksonville, advise Taylor turpentine place was acquired by Taylor Naval Stores Co., formed to own and operate the property; W. H. Moore, Pres., 114 E. Louise St., South Jacksonville; still was rebuilt by McMillan Metal Co., Jacksonville, cap and arm replaced, ketale and collar repaired; about 60,000 faces being operated at present time; later plan increasing operation to 200,000 faces. 5-12

Fla., Brooksville—R. W. Underwood rebuilding burned lumber plant.

Ga., Townsend—T. T. Scott, Kenansville, Fla., reported, erect sawmill; has tract of pine timber.

Miss., Estes—J. M. Griffin, Holopaw, Fla., reported, acquired mill and timber of Logan & McClure Lumber Co.; property includes sawmill, 6 dry kilns, etc.

N. C., Windsor—Gray Mfg. Co., acquired from Foreman-Blades Lumber Co. 9000 acres timber land, Bertie county; erect lumber mill.

## Mining

Md., Baltimore—Aquia Quarry Corp., 1400 Continental Bldg., incorporated; Joseph L. Kerr, Hunter H. Moss.

Va., Buckingham—A. L. Pitts, Sr., develop Fountain Field slate quarry.

Va., Geer—Marshall Haney, Mining Engr. and purchasing agent for syndicate acquiring and developing Crimora manganese mine in Augusta County, will install pilot grinding and pulverizing mill. See Want Section—Machinery and Supplies. 5-5

## Miscellaneous Construction

Arkansas—U. S. Engr. Office, P. O. Box 667, Vicksburg, Miss., opens bids May 24 for constructing approx. 7800 cu. yd. earthwork, east bank Red River; Item 4, new levee, 10 ft. high.

D. C., Washington—Arlington Memorial Bridge Comsn., 1031 Navy Bldg., has low bid from Frank Pecora Construction Co., 4006 Eldorado Ave., Baltimore, for memorial entrance to Arlington Memorial bridge project at \$121,042; Alt. 1, \$1850. 4-28

Maryland—Jetties—See Bridges, Culverts and Viaducts.

Miss., Holly Springs—Marshall County Supvrs., S. V. Cochran, Clk., opens bids May 30 for levee on fish preserve, known as Duck Pond, north of here.

Mississippi—Hydraulic Settlement of Fills—See Roads, Streets and Paving.

Mississippi—U. S. Engr. Office, P. O. Box 667, Vicksburg, opens bids May 24 for



Co., Inc.,  
y C. Colson,ty Co., Inc.,  
ted; H. El-Beach Co.,  
Bank Bldg.,  
Gray, Jr.,  
developing  
3000 ft. on  
ty; clearing  
s, etc.; ex-  
4-28Club, capi-  
Meeker, C.Corp., 3682  
V. Deames,  
E. D. Morse,Co., capital  
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Southwestalty Corp.,  
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4-28

Culverts

County  
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as Duck

of Fills

O. Box  
for sp-

prox. 1150 cu. yd. earthwork, west bank Tal-  
lahatchie River, known as "Repairs to Pleas-  
ant's Levee Breaks"; 1150 cu. yd., 6 mi  
southeast of Glendora, Miss.

Missouri—U. S. Engr. Ojce, P. O. Box,  
97, Memphis, Tenn., opens bids June 7 for  
constructing levee protection work on Ram-  
sey Creek Drainage Canal, Little River  
Drainage Dist., Scott County; 1040 l. f. dry  
rubble wall, containing about 800 cu. yd.  
stone, about 1100 cu. yd. riprap paving, and  
about 6500 cu. yd. earth fill.

Missouri—U. S. Engr. Office, Box 97, Mem-  
phis, Tenn., opens bids June 7 for levee  
protection, Ramsey Creek drainage canal,  
Little River Drainage Dist., Scott County;  
1040 lin. ft. dry rubble wall containing 900  
cu. yd. stone, about 1100 cu. yd. riprap pav-  
ing and 6500 cu. yd. earth fill.

Mo., New Madrid—U. S. Engr. Office, P. O.  
Box 97, Memphis, Tenn., opens bids June 7  
for conc. culvert extensions and cast iron  
sanitary sewer as follows: Culvert exten-  
sions, 3x3 ft., 21 ft. long; 2x2 ft., 50 ft. long;  
1½x1½ ft. long; 3x3 ft., 73.5 ft. long; 6x6  
ft., 98 ft. long; 3x3 ft., 117 ft. long; sanitary  
sewer, c. l., 12-in. diam., 250 ft. long; quan-  
tities: 340 cu. yd. conc., mostly reinforced,  
1800 l. f. creosoted wood piles, 160 sq. yd.  
riprap paving, 250 l. f. 12-in. cast iron sewer,  
2 vertical lift sluice gates, 4 automatic sluice  
gates.

Mo., University City, St. Louis—City, J. M.  
Montelch, Park Commr., 6810 Delmar St.,  
let contract to Higbee Bros. Construction  
Co., 4164 Delmar St., St. Louis, at \$34,744,  
for swimming pool, etc.; total cost, less  
excavation, \$46,097. 4-21

Okla., Oklahoma City—City, Albert McRill,  
City Mgr., considering constructing garbage  
incinerators.

Okla., Oklahoma City—City, Albert McRill,  
City Mgr., drawing plans for 3 wading pools.

La., Rayville—Comms. of Tensas Basin Levee  
Dist., Rayville, J. H. Hart, Sec., Delhi,  
rejected bids for levees along Ouachita River,  
Buckhorn Bend vicinity because of inability  
of residents to come to early agreement re-  
garding lines on which levees should be con-  
structed; second call for bids will probably  
be advertised in near future. (See Drainage,  
Dredging and Irrigation, 4-14).

Tex., Graham—Charles E. Hinson Grain  
Co. broke ground for 20,000-bu. receiving  
elevator, Fifth St., adjacent Rock Island  
tracks; install machinery for grinding and  
mixing feed.

Va., Richmond—City, R. Keith Compton,  
Dir. Public Works, has low bid from City  
Building Corp., Builders Exch. Bldg., for  
transit shed and warehouse. 4-21

### Miscellaneous Enterprises

Ala., Birmingham—Birmingham Museum  
Assn., and Museum Auxiliary formed with  
Samuel L. Earle, Pres.; establish museum.

Ala., Mobile—Burke Packet Co., Owen  
Burke, Gen. Mgr., petitioned Alabama Public  
Service Comsn., Montgomery, for permission  
to discontinue packet service between Mobile  
and Tombigbee and Alabama River points and  
substitute towboat and barge service to in-  
clude Selma and Montgomery on Alabama  
River, Demopolis on Tombigbee and Tusca-  
loosa on Warrior River.

Ark., Arkansas City—Arkansas City Ferry  
Co. organized; A. C. Johnson, Helena; N. C.  
Triplett, Arkansas City; operate ferry be-  
tween Arkansas and Mississippi sides of  
Mississippi River.

Ark., Little Rock—M. K. Orr Construction  
Co., incorporated; M. K. Orr, 1523 Broadway.

Ark., Malvern—Malvern Publishing Co., in-  
corporated; Fred W. Lowe, George B. Mc-  
Donald.

Ark., Paragould—New Vandervoort Hotel  
Co., capital \$15,000, incorporated; Frank A.  
Loda, W. L. Gatz.

Fla., Fellsmere—Fellsmere Sugar Co., F.  
W. Heiser, V. P., advises sugar factory un-  
der erection is small unit; work being han-  
dled by company's engineers; all materials  
and equipment purchased. 3-24

Fla., Jacksonville—Jacksonville Printing  
Co., incorporated; E. K. McIlrath, Graham  
Bldg.

Fla., Miami—Tropical Corp., incorporated;  
F. A. Sutton, 2264 W. 10th St.; publishers.

Fla., Orlando—Orlando Armature Works,  
Inc., chartered; J. H. Lott, R. C. Hudson,  
J. A. Turner.

Fla., Pensacola—Christian P. Hepfer erect  
building Wright St. near Haynes St. for  
bakery.

Ga., Macon—Publishers Service Corp.,  
Theodore Arter, Jr., Executive V.-Pres.,  
11 W. 42nd Street, New York, estab-  
lished southern headquarters Citizens and

Southern National Bank Bldg.; will print  
Publishers Service, semi-monthly trade mag-  
azine for newspaper publishers under manage-  
ment of Paul Sarazen.

Ky., Lexington—Munns Bros., A. I.  
Munns, Pres., rebuild burned packing plant  
on Old Frankfort Pike.

La., New Orleans—City, F. R. Gomila,  
Commr., considering plans for installing fire  
alarm system, purchase \$14,000 floodlight  
wagon.

La., Shreveport—Loeb, Helm & Mailhes  
Advertising, Inc., 303 Slatery Bldg., incor-  
porated; L. J. Mailhes, August Loeb.

Md., Baltimore—Fish Dry Cleaning Co. im-  
proving property at 2553-67 Pennsylvania  
Ave.; new roof; construct 4 saw teeth; re-  
place doors by sash; interior improvements;  
bids due May 21. Following contractors esti-  
mating: M. A. Long Co., 10 W. Chase St.;  
C. W. Schmidt, Munsey Bldg.; DeCou & Co.,  
857 N. Eutaw St.; C. J. Spielman Co., 1928  
Annapolis Rd.; J. George Benschel Co., 3005  
Shannon Drive; Edward L. Walsh, 2100 Al-  
lendale Rd. W. S. Austin, Engr., 800 Mary-  
land Trust Bldg.

Md., Westminster—H. S. Roop Co., incor-  
porated; Harry S. Roop, Denton Gehr; tools.

Mo., Kansas City—Safe-Quick Products  
Corp., capital \$25,000, incorporated; Sam W.  
Ramsel, 716 Gleed Terraces; washing ma-  
chines.

Mo., Kansas City—Missouri Cottonseed  
Grinders Plant, Inc., capital \$20,000; in-  
corporated; G. E. Challinor, Fred J. Wolfson,  
Commerce Bldg.

Mo., Marshfield—Marshfield Packing Co.,  
capital \$25,000, incorporated; Orville E. Jen-  
nings, Roy E. Wallace.

Mo., St. Louis—Sandwich Bakeries, Inc.,  
chartered; A. B. Anderson, Melvin E. Bens-  
wanger.

Mo., St. Louis—Mid-West Screw Products  
Co., capital \$16,000, incorporated; John T.  
Soy, 4502 Harris St.

Mo., St. Louis—Famous Root Beer, Inc.,  
chartered; Frank Chura, 911 Anne St.

Mo., St. Louis—Squardee Safety Sash Mfg.  
Co., Chas. Drill, Pres., 4119 Gravois St., in-  
corporated to manufacture patented safety  
sash; leased space at above address; con-  
templates erecting \$25,000 plant for production  
of wood and steel frames. 4-7

Mo., University City, St. Louis—Stealey  
Building Co., incorporated; Lee G. Stealey,  
University City; Leo A. Kelly, 6200 Julian  
St., St. Louis.

N. C., Charlotte—Pound & Moore Co., S.  
Tryon St., remodeling brick building in rear  
of present building for printing plant.

N. C., Gastonia—Yarborough & Elrod, Inc.,  
capital \$50,000, incorporated; E. D. Yarbor-  
ough, T. P. Elrod; plumbing.

N. C., Winston-Salem—Mengel Co., A. W.  
Cornwall, Jr., Branch Mgr., 15 W. 24th St.,  
advises are moving some of corrugated ship-  
ping container plant from Louisville, Ky., to  
Winston-Salem; not erecting any building;  
have plant at Winston-Salem, installing ma-  
chinery in building used for wood box plant.  
5-5

Okla., Oklahoma City—Rotary Equipment  
Co., capital \$25,000, incorporated; H. B.  
Hopps, Equity Bldg.

Okla., Cherokee—Cherokee Creamery Co.  
incorporated; Earl W. McDowell, Amsa Mc-  
Dowell.

Tenn., Chattanooga—White Swan Laundry  
Co., capital \$75,000, incorporated; James B.  
Perkins, Gordon K. Perkins, 18 Sequoia Dr.

Tenn., Lawrenceburg—City voted \$40,000  
bonds for building to be occupied by Salant  
& Salant, Inc., 476 Knickerbocker Ave.,  
Brooklyn, N. Y., as shirt factory. 5-5

Tex., Brownwood—Johnson Storage & Dis-  
tributing Co., Inc., chartered; W. A. Johnson,  
G. C. Porter.

Tex., Dallas—Texas Cotton Co-operative  
Publishing Co., Inc., chartered; R. J. Mur-  
ray, 1102 S. Ervay St.

Tex., Dallas—Vogel-Bracken Printers, Inc.,  
chartered; Amos L. Bracken, 508 N. Flem-  
ing St.

Tex., Dallas—City, John N. Edy, City  
Mgr., considering proposal of Dallas capi-  
talists for erecting \$300,000 plant for reduc-  
tion of dry garbage.

Tex., El Paso—Reynolds Electrical & En-  
gineering Co., 708 N. Piedras St., chartered;  
J. P. Henderson, O. R. Armstrong.

Tex., El Paso—Homan & Crimen, Inc.,  
capital \$100,000, incorporated; John C.  
Crimen, 404 Grandview Ave.; sanitarium.

Tex., El Paso—Reynolds Electrical and  
Engineering Co., incorporated; L. J. Rey-  
nolds, J. P. Henderson, O. R. Armstrong.

Tex., Houston—Patton & Patton, Inc.,  
chartered; Gilbert E. Patton, 7902 Chester  
St.; construction.

Tex., Paris—Lamar County Chamber of  
Commerce negotiating with Oklahoma capi-  
talist for location of broom plant.

Tex., San Antonio—Atlee B. and Robt. M.  
Ayres, Archts., Smith-Young Tower, prepar-  
ing preliminary sketches for creamery on  
Jones Ave. near Broadway, for Mistletoe  
Creamery, 219 Austin St.; 2 stories and  
basement; fireproof. 3-10

Tex., San Antonio—L. Harrington Co.,  
Builders Exchange Bldg., architect for  
creamery for Knowlton Co., on Fredericks-  
burg Rd., advises work temporarily delayed.  
5-12

Tex., Texarkana—Witt, Seibert & Halsey,  
Archts., Texarkana Natl. Bank Bldg., opens  
bids soon for proposed 1-story, 85x140 ft.,  
rein. conc., brick and steel bakery for Butter  
Nut Bread Co. Following estimating: Gen.  
Contract—Oates Construction Co.; J. O.  
Wright, 1912 W. 15th St., and W. T. Bentley,  
1216 W. 6th St., Hardy Construction Co., all  
Texarkana; J. M. O'Neal, Hope, Ark.; J. W.  
Collingsworth, Longview; Glenn G. Lamison,  
Abilene; Electric Wiring—Texarkana Elec-  
tric Co.; Paul Lovett, 904 E. Sixth St.;  
Williams Electric Co.; Logan Electric Co.,  
all Texarkana; Plumbing—Shaw Gas &  
Plumbing Co., Little Rock, Ark.; Dickerson  
Plumbing Co., Texarkana; Cervini Plumbing  
Co., Texarkana. Separate bids being received  
on refrigeration and equipment. 5-5

Tex., Texarkana—Ernest Rotermund,  
Lakeland, Fla., establish dye works, 516  
W. Fifth St.

Va., Richmond—Atlantic Varnish and  
Paint Co., Inc., capital \$50,000, chartered;  
A. H. Bullington, 2101 Grove Ave.

### Motor Bus Lines and Terminals

Ark., Mountain Home—N. W. Williams  
granted permission to operate passenger line  
from Mountain Home to Salem, Melbourne  
and Batesville.

D. C., Washington—See Hotels and Apart-  
ments—Buildings Proposed.

Mo., Carthage—Sunflower Truck Line, Car-  
thage, granted permission by Arkansas Rail-  
road Comsn., Little Rock, to operate inter-  
state freight line, Carthage to Bentonville  
and other points in northwestern Arkansas.

Tex., Dallas—Southwest Terminals, Inc.,  
let contract to Henger & Chambers Co., 1600  
Dallas Bank Bldg., for motor freight ter-  
minals, 700 S. Lamar St.; struc. steel, brick  
and conc., 72x550 ft., 1 and 2 stories, built-  
up composition roof, conc. floors; cost of  
building \$120,000; of equipment, etc., \$30,-  
000; E. C. Martin, Archt., Southwestern Life  
Bldg.; Frank W. Chappell, Engr., 3015 Grand  
Ave. See Want Section—Building Material  
and Equipment. 5-5

Va., Harrisonburg—Harrisonburg Motor  
Express, Dan Hartman, applied to State  
Corporation Comsn., Richmond, for permis-  
sion to operate interstate freight motor ser-  
vice from Harrisonburg, Va., to Virginia-  
West Virginia State line, destination Phila-  
delphia, Pa.

### Railways

Ala., Myrtlewood—Meridian & Bigbee River  
Ry. Co., E. D. Sloan, Ch. Engr., Meridian,  
Miss., reported, authorized by Interstate  
Commerce Comsn., Washington, to borrow  
\$600,000 from Reconstruction Finance Corp.  
to complete construction of line, Cromwell,  
across Tombigbee River to Myrtlewood,  
approx. 21 mi., to connect with Louisville &  
Nashville branch running to Selma; would  
provide connecting link between 2 discon-  
nected parts of Illinois Central System—Ya-  
zoo and Mississippi Valley at Meridian and  
Central of Georgia at Montgomery, Ala.; line  
to cost \$750,000; contractor to apply addi-  
tional \$150,000 and take common stock in  
payment.

Tex., Dallas—Louisiana, Arkansas & Texas  
Ry. Co., C. P. Couch, Pres., Shreveport, La.,  
authorized by Interstate Commerce Comsn.,  
Washington, to enter Dallas; approved track-  
age agreement between Louisiana, Arkansas  
& Texas and Missouri-Kansas-Texas by which  
L., A. & T. will operate between Greenville  
and Dallas.

Va., Roanoke—Norfolk & Western Ry. Co.,  
Clyde Cocke, Pur. Agt., advises regarding steel  
roofs which will be applied to 500 box cars of  
40-ton capacity, at shops here, this material  
will be purchased from time to time; intention  
to spread work out over long period; present  
indications are that portion of these roofs  
will be ordinary riveted type of roof; pur-  
chase necessary angles and steel sheets in  
open market; others probably to be secured  
at rate of 50 sets from time to time.



## Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

## Proposed Construction

Ala., Mobile—Mobile, J. R. Peavy, County Highway Engr., Courthouse, opens bids June 6 for paving with 1-course conc. north approach to Three Mile Creek bridge, Telegraph road; 235 sq. yd. conc. paving with reinforcement and dowelled joints, part of improvement No. 11. 4-28

D. C., Washington—Dist. Commrs., Room 427, Dist. Bldg., Washington, D. C., open bids May 23 for about 60,000 cu. yd. grading at various locations.

FLORIDA—State Road Dept., H. H. Wells, Chmn., Tallahassee, opens bids May 24 for 6 projects in following counties:

Duval—6.76 mi. clearing, grubbing, grading, drain. structure, lime rock base, alt. on Macasphalt or Colprovia surface course, Road 47, between South Jacksonville and Goodby's Lake, Proj. 1024; 2.94 surface course, Macasphalt or Colprovia, Road 4, between Bayard and Proj. 771, Proj. 1097.

Polk—10.26 mi. lime rock base with sand rock asphalt (Kyrock) or Macasphalt surface, Road 2, between Bartow and Ft. Meade, Proj. 757; 9.80 mi. same type construction, Road 2, between Ft. Meade and Hardee county line, Proj. 758.

Gilchrist—158,500 gal. coal tar for mixed in place and sand surface and 158,500 gal. f.o.b. cars, Bell, for Road 77, Proj. 878.

Highlands—8.5 mi. clearing, grubbing, grading, drain. lime rock base and surface treatment, Road 8, between Avon Park and Sebring, Proj. 562-C.

Florida—State Road Dept., H. H. Wells, Chmn., Tallahassee, let contracts for materials: Cooney Eskestein & Co., Bisbee Bldg., Jacksonville, untreated timbers for bridge over Gulf Hammock, Road 81, Levy County, \$1963; Newberry Corp., Jacksonville, 3556 tons limerock, Road 35, near Greenville, Madison County, \$7558; Williston Shell Rock Co., Williston, 3700 tons limerock, Road 2, between Gainesville and Paradise, Alachua County, \$4662; Maule-Ojus Rock Co., Ojus, 2816 tons limerock, Road 4, Palm Beach County, \$3407; Cummer Lumber Co., Barnett Bldg., Jacksonville, 5737 tons limerock, Road 119, Broward County, \$11,474. 4-28

Georgia—State Highway Bd., J. W. Barnett, Chmn., Atlanta, plans 12 mi. paving, Georgia portion of Thomasville-Monticello (Fla.) Highway.

KENTUCKY—State Highway Comsn., Ben Johnson, Chmn., Frankfort, receives bids May 25 for 13 roads and 3 bridge projects in following counties:

Ballard—4.620 mi. grade and drain, 24-30 ft. width, Wickliffe-East Cairo road, FR-92-A-G;

Bullitt—707 mi. grade and drain. bridge approaches and substructure for Floyd's Fork bridge, 24-30 ft. width, Shepherdsville-Taylorsville road, SP-46-D-B; superstructure for Floyd's Fork bridge, SP-46-D-B;

Calloway—10.876 mi. grade and drain, Murray-New Concord-Tennessee state line road, 24-30 ft. width, SP-119-B-G;

Cumberland—9.357 mi. surfacing, 18 ft. width, Burkesville-Albany road, SP 51 C-S, SP 40 A-S;

Edmonson—6.437 mi. grade and drain, including bridge over Bear Creek, 24-30 ft. width, Brownsville-Iron Bridge-Leitchfield road, SP-140-A-G;

Graves—8.617 mi. grade and drain, 24-30 ft. width, Mayfield-Symsonia road, SP-69 B-G;

Grayson-Breckinridge—755 mi. grade and drain, 24-30 ft. width, approaches to Rough River bridge, Leitchfield-Hardinsburg road, SP-441-C-G; substructure, Rough River bridge, SP-441-C-B1; superstructure, Rough River bridge, SP-441 C-B2;

Grayson—6.094 mi. surfacing, 18 ft. width, Leitchfield-Brownsville road, SP 58 AS and FA-225 A-S;

Nelson—5.609 mi. surfacing, 36-42 ft. and 24 ft. width, Bardstown-Louisville road, SP-3 A-GS;

Pike—12.363 mi. surfacing, 18 ft. width, Pikeville-Jenkins road, FA-127-E-S2;

Todd—11.437 mi. surfacing, 18 ft. width, Russellville-Guthrie-Tennessee state line road, FA-202 A-S; 6.098 mi. grade and drain, 24-30 ft. width, Elkton-Sharon Grove road, SP-251 A-G;

Webster—6.8 mi. grade and drain, 30-36 ft. width, Sebree-Slaughters road, SP-254 A-G.

KENTUCKY—State Highway Comsn., Ben Johnson, Chmn., Frankfort, has low bids for 7 roads in following counties:

Bullitt—13.216 mi. 18-ft. surfacing, Shepherdsville-Taylorsville road, S. P. 46 C-S, Ralph Rogers & Co., Stanford, using traffic bound limestone;

Christian—11.476 mi. 18-ft. surfacing, Hopkinsville-Madisonville road, FAP 171 A-S, Gorrell, Barrow & Kirkpatrick, Russellville, \$97,503, using rein. conc., cement furnished by state;

Daviess—3.814 mi. 18-ft. surfacing, Owensboro-Henderson road, S. P. 8 H-S, Robinson, Gregory & Co. and Hart & Owensboro, \$45,258, using rock asphalt-limestone base;

Henderson—5.929 mi. 18-ft. surfacing, Henderson-Dixon road, SP 2 B1-S & FA 42 A-S, Quinn Construction Co., Bedford, Ind., \$56,870, using rein. conc., cement furnished by state, \$56,870;

Ropkins—6.885 mi. 18-ft. surfacing, Madisonville-Hopkinsville road, FA 122 B-S2 & FA 41 CE-S2, N. E. Stone & Co., Madisonville, \$81,675, using rein. conc., cement furnished by state;

McLean—5.718 mi. 18-ft. surfacing, Beech Grove-Eastwood Ferry road, SP 2 1/2, Sec. C-S, Blair & Franse Construction Co., Lexington, \$18,058, using bank gravel. 5-5

KENTUCKY—State Highway Comsn., Ben Johnson, Chmn., Frankfort, opens bids June 15 for 18 roads in following counties:

Bath—12.1 mi. grading, draining, Owingsville-Frenchburg road, Owingsville to Menifee County line;

Carroll—6.9 mi. grading, draining, surfacing, Carrollton-Ghent road, Carrollton to beginning of paving in Ghent;

Christian—10.2 mi. surfacing, Hopkinsville-Cadiz (US 68) road, Hopkinsville to Trigg County line near Gracey;

Clinton—2.9 mi. grading, draining, Albany-Jamestown road, Albany at junction with road to Burkesville to point approx. 0.8 mi. south of Snow;

Fleming—0.5 mi., section of Flemingsburg St. on Fairview road beginning at Main St.; 0.5 mi., section of Flemingsburg St. on Mt. Carmel road beginning at Main St.; court house square in Flemingsburg; bids will be received on above described work as one project;

Grant—2.0 mi. grading, draining, Dry Ridge-Owenton road, Dry Ridge to Owen County line;

Livingston—6.3 mi. grading, draining, Smithland-Birdsville-Bayou road, junction with US 60 3 mi. north of Smithland to Bayou Creek 1/2 mi. west of Bayou;

McLean—3.1 mi. grading, draining, Beech Grove-Rangers Landing road, junction with Beech Grove-Eastwood Ferry road 3 mi. west of Beech Grove to Green River at Rangers Landing;

Metcalfe—7.6 mi. grading, draining, Edmonson-Tompkinsville road, end of graded road 3.7 mi. south of Edmonson to Monroe County line;

Monroe—8.7 mi. grading, draining, Tompkinsville-Hestand-Tennessee State line road, Tompkinsville to Tennessee State line;

Oldham—10.8 mi. grading, draining, Crestwood-Ballardsville-Newcastle road, Heads Gate approx. 1/4 mi. east of Crestwood to Henry County line;

Pulaski—10.2 mi. grading, draining, Somerset-London road, Somerset to 3/4 mi. west of Buck Creek;

Rowan—3.9 mi. grading, draining, Wagons Store-Wrigley road, Wagons Store on Morehead-Sandy Hook road and extending to Elliott County line;

Russell—3.6 mi. grading, draining, Russell Springs-Somerset road, junction with Route 35 near Russell Springs and extending to 3/4 mi. east of Fairview;

Trigg—12.5 mi. surfacing, Hopkinsville-Cadiz-Paducah (US 68) road, Christian County line near Gracey to Dyers Chapel (excluding town of Cadiz);

Whitley—6.7 mi. grading, draining, surfacing, Williamsburg-Pineville road, junction with US Route 25-W 1/4 mi. north of Williamsburg and extending to Sullivan's bridge.

Louisiana—Road Materials, Bids May 31—See Want Section—Bids Asked.

La., Crowley—City, Mayor and Bd. of Aldermen, take new bids for paving E. Second St.; project embraces additional pavement to state highway project utilizing street; provides curbs and gutters; M. M. Bernard, Engr., Crowley. 4-28

La., New Orleans—City Purchasing Agt., Room 24, City Hall, opens bids May 24 for resurfacing Napoleon Ave. (B. S.). Water St. to Claiborne Ave., with double cut back asphalt type surface.

MARYLAND—State Roads Comsn., L. H. Steuart, Sec., Baltimore, opens bids May 24 for 3 roads in following counties:

Montgomery—0.67 mi. conc., Tacoma Park, Saratoga Ave. and approach from Chestnut Ave. to Sunnyside road, M-214-35;

Queen Anne's—1.19 mi. conc. roadway and slag shoulders, Unicorn Mills road, Milling-

ton-Sudlersville road toward Crumpton, Q. 82-22;

Washington—1.99 mi. conc., Cavetown toward Boonsboro, W-92-64, FAP 242.

MARYLAND—State Roads Comsn., L. H. Steuart, Sec., Baltimore, has low bids for 4 roads and 4 bridge projects in following counties:

Allegany—4.38 mi. conc. shoulders, McKenzies Stores, National Pike to Corriganville and to Pennsylvania state line, 5575 bbl. cement required, A-124, FAP 3, Rev., Cumberland Contracting Co., Cumberland, \$34,281;

Anne Arundel—3.32 mi. conc. shoulders and conc. base, Generals Highway, point 4.32 mi. south of Glenburnie to intersection with Crain Highway, 8400 bbl. cement required, AA-135-711, FAP 85 Reop. and 36 Rev., P. Reddington & Sons, 2 E. Lexington St., Baltimore, \$58,189;

Cecil—electrical works, lighting and power for bridge over Bohemia River, road, Elkton to Chestertown, Ce-108-1-27, Roland Electrical Co., 418 E. Pratt St., Baltimore, \$3790;

Dorchester—electrical work for lighting and power for bridge over Marshyhope Creek, Brookview, D-79-1-17, Roland Electrical Co., \$3536;

Frederick—conc. bridge floor and surfacing on approaches for bridge under construction over Monocacy River, Frederick-Libertytown road, Ceresville, 1925 bbl. cement required, F-175-1-57, Poffenberger & Mause, Meyerville (low and only bidder), \$26,687;

Garrett—triple-span steel bridge with conc. floor over Youghiogheny River, Friendsville, G-75-67, Mullan Contracting Co., 3945 Greenmount Ave., Baltimore, \$31,729;

Prince George's—0.24 mi. conc. shoulders and conc. base, Riggs Mills road at Northwest Branch, 1050 bbl. cement required, P-220-311, Daniel Marine, 236 Albemarle St., Baltimore, \$4439;

Washington—0.93 mi. macad. resurfacing, Downsville-Williamsport road, Williamsport Sta. to Williamsport, 40 bbl. cement required, W-108-32, Frank J. Byron, 638 Register Ave., Baltimore, \$12,264. 5-5

Md., Baltimore—City, George Cobb, Highways Engr., has low bid from Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., at \$24,546, for 8050 sq. yd. sheet asphalt, Cont. 612.

Md., Baltimore—City, Geo. Cobb, Highways Engr., rejected bids for 12,000 sq. yd. cement conc., Cont. 617; take new bids later. 4-21

Mississippi—State Highway Comsn., C. M. Williamson, Dir., Jackson, opens bids May 31 for approx. 155,840 cu. yd. hydraulic settlement of fills by pressure jetting, FAP 135-Reop., Meridian-Hattiesburg road, Lauderdale County.

Mississippi—State Highway Comsn., C. M. Williamson, Dir., Jackson, opens bids May 31 for 12,111 mi. paving, Tutwiler-Clarkdale road, FAP 212-A, Coahoma County, 213 sq. yd. cement conc. bridge end slabs, 2064 cu. yd. subgrade treatment, 300-ft. haul, 1178 cu. yd. subgrade treatment, 1000-ft. haul, 7805 cu. yd. subgrade treatment, 1 mi. overhaul, 106,746 sq. yd. hydraulic settlement of fills, 141,887 sq. yd. alt. types paving, as follows: Group "A": Rein. cement conc. pavement; Group "B": sheet asphalt, rock asphalt or asphaltic conc. surface course, with cement conc. base course; Group "C": Sheet asphalt, rock asphalt, or asphaltic conc. surface course, with asphaltic conc. base course and gravel sub-base course, furnished.

Miss., Gulfport—City Commrs. secured from Illinois Central System long time lease of strip 13th to 14th St. on west side 27th Ave. for street purposes; trees and plants will be moved back and 10-ft. strip will be added to street; soon start work.

Mo., Clayton, St. Louis—St. Louis County, Roy Jablonsky, Highway Engr., opens bids May 25 for improving Tesson Ferry road, Missouri State Highway R77 to Butler Hill road.

Mo., St. Louis—City Bd. of Public Service, City Hall, has low bids for paving: Asphalt paving widened Market St., Central Paving & Construction Co., 411 N. Seventh St., \$21,394; Gannett Ave., Schoenlau St., Chase Construction Co., 530 Devonshire St., \$5533 and \$2926, respectively.

North Carolina—State Highway Comsn., Leslie R. Ames, Highway Engr., Raleigh, opens bids May 24 for approx. 11 mi. traffic-bound macad., Fork-Mocksville link, Highway 90; grading and bridges completed.

OKLAHOMA—State Highway Comsn., Sam R. Hawks, Chmn., Oklahoma City, opens bids May 24 for 3 roads in following counties:

Lincoln-Payne—16.724 mi. draining structures and grading, State Highway 48, between Stroud and point approx. 2.5 mi. west

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at Drumright, SAP 822, A, B and C; quantities: Sec. A (6.307 mi.), 108,059 cu. yd. exca., 162 creos. timber ditch checks complete, 773 cu. yd. "A" conc., 63,447 lb. rein. steel, 228 l. f. 18, 24 and 30-in. rein. conc. pipe; Sec. B (6.982 mi.), 112,380 cu. yd. exca., 380 cu. yd. "A" conc., 49,050 lb. rein. steel, 238 l. f. 18, 24 and 30-in. rein. conc. pipe; Sec. C (3.435 mi.), 46,334 cu. yd. exca., 499 cu. yd. "A" conc., 40,416 lb. rein. steel, 244 l. f. 18, 24 and 30-in. conc. pipe;  
**Atoka**—6.507 mi. grading, draining, 20 ft. 10-10 rein. conc. pavement, U. S. 75, Atoka southwest, FAP 219-A; quantities: Grading and draining, 21,210 cu. yd. "D" exca., 104 cu. yd. "A" conc., 8138 lb. rein. steel, 173 l. f. 18 and 24-in. r. c. pipe, 9 sq. yd. laid up riprap; pavement, 76,525 sq. yd. r. c. pavement, 71 conc. approach slab, 3447 l. f. lip curb, 9 cu. yd. "AA" conc., 2670 lb. rein. steel, 80 l. f. 12-in. corr. iron pipe, 16,300 l. f. wire cable guard rail.

**TEXAS**—State Highway Comsn., Gibb Gilchrist, Highway Engr., Austin, plans 9 roads and 6 bridge projects in following counties:  
**Ellis**—rein. conc. bridge, girder type, conc. pile substructure, Highway 34, over Mountain Creek, 24-ft. roadway, SAP 754-I, \$33,500;  
**Lipscomb**—steel, timber, conc. bridges, steel I-beams, conc. floor, timber pile trestle bents, over Kiowa, Darozett and Ivanhoe Creeks, Highway 117, 22-ft. roadway, SAP 977-C, \$80,000;  
**Madison**—1.382 mi. rein. conc. pavement (water cement ratio), Bates type, 9-6-9, 20 ft., Highway 21, point 1 mi. west of Midway to point .17 mi. east of Midway, FAP 486-B, Unit 2, \$23,400;  
**Pecos**—10.992 mi. grading, draining, Highway 27, point 39 mi. east of Fort Stockton to point 21 mi. west of Sheffield, FAP 618-D, Unit 1, \$53,800;  
**Refugio**—18.867 mi. rein. conc. pavement, strength design, 18 ft. wide, 9-6-9, Highway 128, point 3 mi. northeast of Refugio northeast to Victoria County line, SAP 840-D, Unit 2, \$300,000;  
**Mculloch**—steel, conc. bridge over San Saba River, Highway 9, 22-ft. roadway, FAP 223, Reop., \$75,000;  
**Bexar-Guadalupe**—steel, conc. bridge, one 40-ft. roadway, other 24 ft., over Salado Creek, other over Cibola Creek, FAP 633-A, \$90,000 (probably call bids soon);  
**Van Zandt**—4.426 mi. grading, draining, Highway 64, Canton to point 4.4 mi. south-east, FAP 84-A, Reop., Unit 1;  
**Hill**—2.900 mi. grading, draining, Highway 31, McLennan County line to connection with present highway, FAP 124-Reop., Unit 1;  
**Wilson**—steel, conc. overpass over S. A. & A. P. Ry., Highway 16, San Antonio-Corpus Christi Highway, FAP 124-Reop., Unit 1;  
**Val Verde**—steel, conc. bridge over Devils River, Highway 3, \$75,000;  
**Crockett**—10.862 mi. caliche base course with double asphalt surface course, Highway 163, point 15 mi. north Ozona to Irion County line, SAP 957-B, Unit 2, \$45,000;  
**Dewitt**—2.351 mi. grading, draining, Highway 72, Lavaca County line to point 2 mi. southwest of Yoakum, FAP 542-C, Unit 1;  
**Hudspeth**—7.196 mi. grading, draining, Highway 1, Lasca to Sierra Blanca, SAP 204-F, Unit 1;  
**Leon**—11.977 mi. rein. conc. pavement, Highway 43, point 2 mi. southwest of T. B. V. Ry. to Navasota River, FAP 582-B, Unit 2.

**TEXAS**—State Highway Comsn., Gibb Gilchrist, Highway Engr., Austin, considering 37 roads, involving approx. \$2,725,000, in following counties:  
**Cherokee**—9.267 mi. iron ore top soil base course with road oil treatment, 7.4 mi. east of Jacksonville to Rusk County line, Highway 43, FAP 555-D;  
**Childress**—12.461 mi. conc., Childress southeast to Hardaman County line, Highway 5, FAP 533-A; 12.203 mi. grading, draining, Prairie Dog Town Fork of Red River to Collingsworth County line, Highway 4, FAP 573-C; 0.244 mi. conc., approaches to grade separation in Childress, Highway 5, SAP 728-I; 0.735 mi. conc., loop through Kirkland, Highway 5, SAP 771-B; 0.753 mi. conc., 0.754 mi. south of Highway 5 to Highway 5 in Childress, Highway 4, SAP 854-G;  
**Crockett**—15.089 mi. caliche base course, Ozona east to Sutton County line, Highway 27, FAP 617-A; 9.236 mi. grading, draining, point 9 mi. west of Ozona to Ozona, Highway 27, FAP 619-E;  
**DeWitt**—2.351 mi. grading, draining, Lavaca County line to 2 mi. southwest of Yoakum, Highway 72, FAP 542-C;  
**Gray**—14.316 mi. grading, draining, caliche base and single bitum. surface treatment, Pampa northeast to Roberts County line, Highway 33, FAP 625-A;  
**Hemphill**—13.693 mi. grading, draining, intersection with Highway 33 south to Wheeler County line, Highway 4, FAP 45-A, Reop., Unit V, FAP 45-C;  
**Hudspeth**—13.693 mi. grading, draining,

Lasca to Sierra Blanca, Highway 1, SAP 204-F;  
**Leon**—11.977 mi. conc., Highway 43, 2 mi. southwest of T. & B. V. R. R. to Navasota River, Highway 43, SAP 582-B;  
**McLennan**—11.470 mi. grading, draining, Coryell County line to 5.5 mi. northeast of McGregor, Highway 7, FAP 323-Reop.; 13.572 mi. conc., Waco northeast to Hill County line, Highway 31, FAP 605-A;  
**Navarro**—8.792 mi. conc., Carsicana to 2 mi. east of Powell, Highway 31, FAP 575-A;  
**Pecos**—10.992 mi. grading, draining, 39 mi. east of Fort Stockton to 21 mi. west of Sheffield, Highway 27, FAP 618-D;  
**Concho-Menard**—9.405 mi. grading, draining, Eden to point 0.129 mi. south of Concho-Menard County line, Highway 4, FAP 616-C, SAP 1004;  
**Regan**—18.518 mi. caliche and waterbound broken stone macad. base course, Upton County line east to west city limits of Big Lake, Highway 99, SAP 904-A;  
**Reeves-Jeff Davis**—12.127 mi. grading, draining, 4 mi. south of intersection Highway 1 to 4.5 mi. north of Toyahvale, Highway 27, FAP 408-B;  
**Roberts**—14.132 mi. conc., Gray County line northeast to Hemphill County line, Highway 33, FAP 625-B;  
**Stonewall**—17.634 mi. grading, draining, Aspermont to King County line, Highway 4, SAP 854-F;  
**Sutton**—10.953 mi. grading, draining, Crockett County line to point 11 mi. east, Highway 27, FAP 617-B; 10.045 mi. grading, draining, 10 mi. west of Sonora to Sonora, Highway 27, FAP 617-C;  
**Tarrant**—2.970 mi. conc., 1.1 mi. east of Grapevine to Dallas County line, Highway 121, SAP 774-C;  
**Pecos**—12.031 mi. grading, draining, 27 mi. east of Fort Stockton to point 12 mi. east, Highway 27, FAP 618-C; 12.985 mi. grading, draining, 14 mi. east of Fort Stockton to point 13 mi. east, Highway 27, FAP 618-B;  
**Kerr**—10.678 mi. triple asphalt surface treatment, 10.5 mi. west of Mountain Home to Mountain Home, Highway 41, FAP 520-B;  
**Lubbock**—6.866 mi. grading, draining, Idalou east to Crosby County line, Highway 24, FAP 443-G;  
**Comal**—12.157 mi. grading, draining, Guadalupe River in New Braunfels to Guadalupe County line, Highway 2, FAP 66-Reop.;  
**Runnels-Coleman**—14.971 mi. caliche and waterbound broken stone macad. bases, Ballinger east to Talpa, Highway 23, FAP 600-A, B & C;  
**Andrews**—17.742 mi. triple asphalt surface treatment, Ector County line to Andrews, Highway 137, SAP 936-C;  
**Childress**—0.184 mi. conc. pavement over Main St., Kirkland;  
**Terrell**—6.521 mi. grading, draining, 9.5 mi. southeast of Dryden to point 8.5 mi. east, Highway 3, FAP 324-E;  
**Presidio**—13.343 mi. grading, small drainage structure, Ochoa road south to Presidio, Highway 17, SAP 970-D;  
**Bell-McLennan**—3.818 mi. grading, draining, 1.9 mi. northeast to Temple to Falls County line, Falls County line to 2 mi. north of Bruceville, Highway 2, FAP 40-Reop., 614-B.

**TEXAS**—State Highway Comsn., Gibb Gilchrist, Highway Engr., Austin, plans 10.5 mi. conc., Washington road, end of pavement which extends about 7 mi. from Brenham.

**Tex., Houston**—City, S. A. Starkey, Street and Bridge Commr., negotiating with Missouri-Kansas-Texas R. R. Co. of Texas, F. Ringer, Ch. Engr., Dallas, on plan for surfacing Grand St., Milam St. underpass underneath Main St. viaduct, to connect with N. San Jacinto St.

**Tex., Houston**—City, S. A. Starkey, Commr., Street & Bridge Dept., plans asphalt topping downtown Main St.; City and Houston Electric Co. to share cost.

**Tex., Houston**—City, J. M. Nagle, City Engr., proposes immediate paving White Oak Drive, Crockett to Kessler; authorized by City Council; authorized to order Southern Pacific lines to construct steel girders on drive under railroad trestle at foot of Winter St.; trestle now is supported by wooden piling spaced 15 ft. apart, which is insufficient width for roadway; steel girders will be mounted on conc. posts spaced 35 ft. apart; trestle improvement to cost approx. \$8500; surfacing roadway and city's share of trestle construction approx. \$15,000.

**Tex., Longview**—State Highway Comsn., Gibb Gilchrist, Highways Engr., probably make surveys at once for Gregg County's \$2,000,000 highway improvement program; surveys for new conc. highways from Longview to Kilgore, Kilgore to Gladewater, Gladewater to Longview, will be made; 3 different routes from Longview to Kilgore will be surveyed.

**Va., Clifton Forge**—Finance Committee of City Council tentatively approved street im-

provements to cost \$10,000, including curbing, guttering and asphaltting; J. M. Evans, Chmn., Street Committee.

**Va., Richmond**—City, Col. R. Keith Compton, Dir., Dept. of Public works, has plans drawn for smooth paving Lombardy St. and curbing and guttering from Broad St. to Chamberlayne Ave.

#### Contracts Awarded

**GEORGIA**—State Highway Bd., J. W. Barnett, Chmn., Atlanta, let contracts for 3 roads in following counties:

**Laurens**—10.5 mi. conc. paving, Savannah Highway, FAP 470-A & B and 112 Reop., Dickson-Carroll Co., Greenville, S. C., \$187,140;

**Clark-Onoconee**—3.166 mi. grassing slopes and shoulders, Watkinsville-Athens road, FAP 376-A Reop. & 253-B Reop. & Ext., L. D. Law Construction Co., Gainesville, \$978;

**Carroll**—4.065 mi. grassing shoulders and slopes, Carrollton-Villa Rica road, FAP 289 Reop., Tillman Bros. Co., Statesboro, at \$1211.

**KENTUCKY**—State Highway Comsn., Ben Johnson, Chmn., Frankfort, let contracts for 8 projects under letting of May 11 in following counties:

**Carlisle and Hickman**—3.654 mi. grade and drain, Bardwell-Columbus road, SP-71-1-BG, McDade and McDade, Fulton, Ky., \$10,459;

**Logan**—3.482 mi. grade and drain, and traffic bound macadam surfacing, Russellville road, FA-202-BGS, C. B. Peart, Auburn, Ky., \$19,797; 4.303 mi. grade and drain, and macadam surface, Russellville-Adairville road, SP-81-BGS, Young and Lyons, Rogersville, Tenn., \$77,157; 9.071 mi. grade and drain, Russellville-Morgantown road, SP-11-BG, C. B. Peart, \$55,285;

**Whitley**—8.260 mi. grade and drain, Williamsburg-Cumberland Falls road, SP-712-AG, O. V. Arnett, Berea, Ky., \$65,766;

**Pike**—10.56 mi. rein. conc. paving, Pikeville-Williamson (W. Va.) road, FA-80-AS, Carey-Reed Co., Lexington, Ky., \$205,786;

**Floyd**—8.544 mi. rein. conc. paving, Prestonburg-Pikesville road, FR-132-CS and FA-237-BS, Carey Reed Co., \$145,762;

**Boyd**—10.085 mi. traffic bound gravel surface, Catlettsburg-Louisia road, SP-178-AS, Myers & Gorman, Campbellsburg, Ind., \$37,367.

**Mississippi**—State Highway Comsn., C. M. Williamson, Dir., Jackson, let contract to Couch Construction Co., Dothan, Ala., at \$80,133, for 4.5 mi. paving, Meridian-Livingston County (Ala.) road, Lauderdale County, FAP 117-Reop.; includes 54,702 sq. yd. paving, 160 sq. yd. cement conc. bridge and slabs. 4-28

**Miss., Vicksburg**—City, Jno. L. Ryland, City Engr., let contract to Frank M. Garvey, Vicksburg, for 6-in. conc., reinforced with hog wire, curb and gutter, to be tied into paving, 2.18 per sq. yd.; curb and gutter, 75 cents per l. f.; approx. 724 l. f. curb and gutter and 1488 sq. yd. paving. 5-5

**North Carolina**—State Div. of Purchase and Contract, Raleigh, let contract to Carolina Steel & Iron Co., S. Elm Ext., Greensboro, for 26,275 lb. struc. steel, to Roaring River, and for 14,754 lb. to Benaja; 12,434 lb. struc. steel to Roaring River, same firm; 19,596 lb. to Greensboro. Southern Engineering Co., Little Pittsburgh, Charlotte.

**OKLAHOMA**—State Highway Comsn., Sam R. Hawks, Chmn., Oklahoma City, let contracts totaling approx. \$600,000 for 10 roads and 19 bridges in following counties:

**Okfuskee**—7.396 mi. grading, draining north of Weleetka, U. S. 75, Moran & Buckner, Muskogee, \$26,099; 2 bridges on same stretch, Moran & Buckner, \$7670; paving same stretch, Moran & Buckner, \$124,730;

**Payne**—grading, draining, State Highway 18, west and south of Cushing, Hoyt Construction Co., Stillwater, \$4951;

**Latimer**—4 bridges, State Highway 43, south of Wilburton, Haynes & Cox, Muskogee, \$33,049;

**Hughes**—6.42 mi. grading, draining, U. S. 75 and U. S. 270, near Calvin, Moran & Buckner, \$8023; 4.627 mi. conc., U. S. 75 and 270 north of Calvin, Moran & Buckner, \$79,891; 2 bridges, U. S. 75 and 270, Moran & Buckner, \$3771; 3.716 mi. grading, small drainage structure, U. S. 75 and 270, Calvin north, Moran & Buckner, \$19,159; 3.716 mi. conc. paving, U. S. 75 and 270, Calvin north, Moran & Buckner, \$65,718;

**Ellis**—6.563 mi. grading, draining, U. S. 60 west of Arnett, J. W. Mooreman, Geary, \$36,071; 2 bridges, U. S. 60 west of Arnett, Secor Construction Co., Hales Bldg., Oklahoma City, \$13,183;

**Jefferson**—6.577 mi. conc., U. S. 81 north of Terral, award held up;

**Kiowa**—6.166 mi. grading, draining, S. H. 14, Hobart south, Green & Reese, Fairview, \$10,336; bridge, S. H. 14 near Hobart, Portwood Construction Co., Hobart, \$1794; 6.239 mi. grading, small drainage structures, S. H. 14, Herman Merveldt, El Reno, \$11,387; 5



bridges, S. H. 14, Portwood Construction Co., \$15,724. 5-5

Tex., San Antonio—Bexar County Commrs. Court let contract to Colglazier & Huff, 125 Crosby St., at \$41,000, for paving.

### Sewer Construction

**Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.**

D. C., Washington—W. F. Brenizer Co., 1501 S. Capitol St., has contract for Arizona Ave. storm water sewer.

D. C., Washington—Dist. Commrs. let following contracts: Peter D'Adamo, Old Town Natl. Bank Bldg., Baltimore, Md., for Davenport St. service sewer; R. G. Lassiter Co., 1108 16th St., for Dix St. storm water sewer; Stowell Con. Co. for Adams Rd. sanitary sewer; W. F. Brenizer Co., 1501 S. Capitol St., for Hillcrest sanitary sewer and O St. service sewer. 4-21

D. C., Washington—Vandale Co., Inc., has contract for Kennedy service sewer between Third and Fourth Sts.

Ky., Winchester—See Want Section—Bids Asked.

La., New Orleans—Thos. H. Brockman, Canal Bank Bldg., has contract at \$10,995, for Contr. 214-D, lined and covered canal and connections in present S. Claiborne Ave. canal at intersection of Mistletoe St.; Concrete Construction Co., 1204 Desire St., contract for Contr. 213-D, lined and covered drainage canal and connections in present S. Claiborne Ave. canal at intersection Palmer Ave. 4-28

Md., Baltimore—Dept. of Public Works, Bureau of Sewers, receives bids May 25 for sewers, Storm Water Contr. 176; plans and specifications \$5.

Md., Baltimore—See Want Section—Bids Asked.

Miss., Vicksburg—Mississippi Lumber Co., Mulberry St., Vicksburg, has contract to furnish 5200 ft. of 8-in. No. 1 sewer pipe for extension work on City Cemetery Rd.; work by day labor under supervision of J. L. Hyland, City Engr. 5-12

Mo., St. Louis—Bd. of Public Service approved appropriation of \$150,000 from bond funds for sewer serve Kingshighway Union Blvd., Kensington Ave. and Lindell Blvd.; work to start at once.

Mo., New Madrid—See Miscellaneous Construction.

Tex., Dallas—P. C. Sorenson Co., McKay Bldg., Grand Rapids, Mich., has contract at \$365,606 for Mill Creek District No. 12-C Division Storm Sewer via Bellevue St. from Browder St. to Trinity River. 5-12

Tex., Houston—City, G. L. Fugate, Princ. Asst. Engr., construct \$10,000 sanitary sewer, serve East End; plans approved for line north side of Brays Bayou from Idylwood to River-view; bids asked.

Va., Richmond—Dept. of Public Works, R. Keith Compton, Director, considering storm sewer in Government Rd. from Gillies Creek to Williamsburg Ave.; cost \$65,000; city appropriated \$200,000 for sewer work in 1932. 1-14

### Telephones and Radio

Alabama—Alabama Public Utilities Co., W. Arnold Duncan, Pres., 105 W. Adams St., Chicago, Ill., will have hearing May 26 at County Court House, Fayette, before Alabama Public Service Comsn., Montgomery, on petition for certificate of necessity and convenience authorizing and approving the purchase by and conveyance to company of telephone properties of South States Utilities Co., Inc., in Haleville, Winfield, Vernon, Carrollton, Aliceville, etc. 3-31

Ala., Anderson—Alabama Public Service Comsn., Montgomery, took under advisement petition of Henry L. Johnson, Rogersville, for approval of purchase of Anderson Telephone Co., from H. H. Hoole.

Fla., Titusville—Dept. of Commerce, Aviation Div., Washington, Frank Dean, local operator, construct remote receiving station in addition to station now under construction. 3-24

Fla., Titusville—A. O. Clark, Titusville, has contract for water system at U. S. Airways Radio Station, system includes 600 gal. automatic pressure control, electrically operated pumps and storage tank.

Mo., Manchester—Southern Bell Telephone

Co., St. Louis, authorized by Interstate Commerce Comsn. to purchase Ballwin Co. and Creve Coeur Mutual Telephone Co.

Okla., Tulsa—J. T. Griffin applied to Federal Radio Comsn. for permission to erect radio station.

N. C., Fremont—Carolina Telephone & Telegraph Co. acquired exchanges at Fremont, Pikeville and Stantonburg owned by Fremont Telephone Co.

Okla., Oklahoma City—KGSC, Aeronautical Radio, Inc., applied to Federal Radio Comsn. for construction permit for change in location to New Municipal Airport, Administration Bldg.

Va., Roanoke—Lee, Smith & Vandervoort, Inc., Architects and Engrs., Builders Exchange Bldg., Richmond, have plans in progress for building for Chesapeake & Potomac Telephone Co. of Virginia, 703 E. Grace St., Richmond; no date set for opening bids. 5-12

### Textile Mills

Ga., Flintstone—Yates Bleachery Co., reported, installing additional machinery.

N. C., Denton—Rogers Hosiery Mill, Inc., organized; erect building adjoining post-office.

N. C., Durham—Muirhead Construction Co. erecting addition to Erwin Cotton Mills, Erwin; Cary Lumber Co., Durham, has contract for lumber; Budd Pipes Roofing Co., Durham, for roofing; Borden Brick & Tile Co., Durham, for brick and cement; first story framing and walls completed. 5-5

Tex., Galveston—George M. Easley, 407 Bullington St., Dallas, reported, acquired Galvez Cotton Mills.

S. C., Anderson—Anderson Cotton Mills let contract at \$65,000 to Townsend Lumber Co., for modern type roof with steel monitor sashes, mill No. 2 and for new floor in spinning mill No. 1. 5-12

Va., Charlottesville—Wm. J. Schepp, Ridge-wood, N. J., Pres. of S. & R. Silk Mills, acquired interest of Julius Rosenthal, New York, in mills; changed name to William J. Schepp, Inc.; plans re-opening mills; contemplates improvements.

### Water Works

**Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that Classification.**

Ga., Manchester—Albert Cato has contract at \$13,294 for city filtration plant; conc. found., brick walls, comp. roof; Wiedeman & Singleton, Engrs., Candler Bldg., Atlanta. 5-12

Ky., Covington—Covington Planning and Zoning Comsn., studying 10-yr. improvement program calling for expenditure of \$2,828,800; projects include widening and extension of streets, \$662,000; creation of parks and playgrounds, \$279,400; erection of schools and building additions to others, \$564,300; erecting fire houses in West Covington and Latonia, \$87,000; improvement of water works system, \$1,216,000; cost to be defrayed with an issue of 30-yr., 4½% bonds; Ladliss Segoe, Planning Expert.

Md., Baltimore—Dept. of Public Works, Bureau of Water Supply, let contract to M. & J. B. McHugh, 3716 Sequoia Ave., at \$42,074, for 36-in. water mains, Hillen Rd. 5-12

Mo., Illmo—J. J. Miller Construction Co., Illmo, has contract for water works including well, 80,000-gal. elevated tank, pump and 20,000-ft. of water mains; Caldwell Engineering Co., Jacksonville, Ill., Archt.; city will erect fire engine and pump house. See Want Section—Machinery and Supplies. 5-5

Okla., Oklahoma City—City, Tom G. Banks, Water Supt., receives bids soon for steel plates to be installed on rollover dam at Lake Overholzer and on gates at main dam; increase water supply 1,000,000,000 gals.

Tex., Amarillo—See Want Section—Bids Asked.

Va., Portsmouth—W. L. Davis, Supt. in charge of water supply system supplying Suffolk and large portion of Norfolk County, recommended purchase of 200 acres land to protect Lake Kilby watershed.

### Woodworking Plants

N. C., Hickory—Hewitt Mfg. Co., capital \$50,000, incorporated; R. D. Hewitt, Mrs. Lillian Sprout; furniture.

N. C., West Jefferson—F. M. Hulder estab-

lishing plant for manufacture living room suites. See Want Section—Miscellaneous.

Tex., Houston—Texas Folding Box & Crate Co., Fannin Bldg., incorporated; Charles H. Taylor, Public Natl. Bank Bldg.; leased building for manufacture chicken crates and all kinds of boxes.

### FIRE DAMAGE

Ala., Dadeville—Dadeville Hardware Co., W. A. Tillery grocery store and Hicks and Oliver general store; loss \$10,000.

Ala., Midland City—Warehouse and gin owned by Dr. Curtis Espy.

Ala., Montgomery—Main plant of Montgomery Stave & Cooperage Co., N. McDonough St., owned by V. J. Blow & Son.

Ark., Kensett—Two dwellings, owned by Fred Hall.

Fla., Wauchula—Trestle and bridge, 200 ft. long, on line of Atlantic Coast Line R. R., J. E. Willoughby, Ch. Engr., Wilming-ton, N. C., 5 mi. north of here.

Ky., Lexington—Munns Bros. meat packing plant on Old Frankfort Pike; loss \$40,000.

Fla., Miami—Plaza Hotel, 316 Biscayne Blvd.

Ga., Augusta—Buildings in 900 block Walker St. of Augusta Stockyard stables and offices, owned by J. A. Stewart; Brigham Bldg., owned by Mrs. Lillie A. Brigham, and building occupied by Augusta Produce Co., owned by estate of Dr. W. W. Buesey.

Ga., Savannah Beach—Atlantic Club building, owned by Julius D. Hirsch.

La., Homer—Residence of W. M. Kellar, owned by Joe Langston; loss \$15,000.

Miss., Gulfport—Dwelling owned by Gulfport Building and Loan Association; loss \$9500.

Miss., Jackson—Pearl School, 4 mi. east of Jackson on Brandon highway, Miss Mattie Cox, Jackson, principal; loss \$30,000.

Mo., Kansas City—Riverside Race Track grandstand, owned by Riverside Jockey Club, P. H. McCrory, Pres., 1908 Main St., Kansas City, near Kansas City; loss \$100,000.

N. C., Concord—Plant of Niblick Lumber Co.; loss \$50,000.

N. C., Durham—S. O. Parrott's garage on Crutchfield St.

N. C., Dunn—Baer's Department Store; J. W. Thornton's Automobile Agency; First and Citizens Bank; office and sub-station of Carolina Power and Light Co.; loss \$75,000.

N. C., Four Oaks—Pope & Tart Co.'s lumber plant; loss \$15,000.

N. C., Kinston—Stores of Sam Pearson, George Haddad and Harry Pearson; loss \$15,000.

N. C., Oxford—Gibson Renn's filling station at Bell Town on Oxford-Durham Highway.

N. C., Smithfield—Service station occupied by Texas Co.; loss \$25,000.

N. C., Tarboro—Gin house of Mack Ruffin; loss \$10,000.

N. C., Trinity—Plant of Frank Auman Lumber Co., Frank Auman, Pres., Seagrove.

S. C., Marion—Buildings in Gasque Block, owned by John O. Gasque, occupied by dental parlors of Dr. D. McIntyre, State Highway Comsn., Dr. Covington and Harrelson's Drug Store.

S. C., Springfield—Lumber yard of Badham Lumber Co.; loss \$50,000.

Tenn., Athens—L. W. Wattenbarger store; loss \$100,000.

Tenn., Nashville—Residence of G. F. Carter, Bellvue Drive; loss \$20,000.

Tex., Dallas—Building of Builders Mill and Mfg. Co., 1810 S. Beckley St. (Paints); loss \$9500.

Tex., Wharton—Store building of John Roten; loss \$18,000.

Va., Amelia C. H.—Frame store building of Scott Mercantile Co. and buildings owned by Branch and Thompson; loss \$50,000.

Va., Greenville—Store buildings of Charlie Saleed and Perkins Co.

Va., Lynchburg—Shop of Virginia Electric, Inc., 823 Main St.; loss \$10,000.

Va., Christiansburg—Plant of Little River Milling and Grain Co., C. S. Thompson, Owner; loss \$12,000.



# BUILDING NEWS

## BUILDINGS PROPOSED

### Association and Fraternal

Fla., St. Augustine—St. Augustine Lodge of Elks, reported, purchased B. Genovar Home, 20 Bay St.

La., Marksville—Marksville Lodge No. 269, A. F. and A. M., plans erecting Masonic Temple on on Washington St., near Weekly News office; Mr. Roberts, Archt., Alexandria.

### Churches

Fla., Pensacola—Mount Olive Baptist Church has permit to erect \$15,000 building.

### City and County

Ky., Covington—See Construction News—Water Works.

Ky., Louisa—Lawrence County Fiscal Court contemplates erecting new jail building; will vote in fall on special tax levy; Levi J. Dean, Archt., 2748 Guyan Ave., Huntington, W. Va.

La., New Orleans—City Comsn. Council, T. Semmes Walmsley, Mayor, passed ordinance providing for erection of new French Market with farmer's market included; cost \$700,000; will purchase 2 squares fronting on North Peters St., between Barracks and Ursuline Sts. and extending to Gallatin St.; general market to be built on river side of North Peters St. from Dumain to St. Ann; Sam Stone, Jr. & Co., Inc., Archts., Masonic Temple Bldg.

Tex., Austin—City Council authorized construction fire station in northwestern part of city.

### Dwellings

D. C., Washington—Harvard Terrace Development Corp. has permit erect eleven 2-story brick dwellings, 3216-3236 Walbridge place N. W., cost \$55,000.

D. C., Washington—Hugh A. Thrift, Woodward Bldg., has permit erect six 2-story brick dwellings, 310-2 Seventeenth St., N. E., cost \$30,000.

D. C., Washington—Israel Diamond, 1738 Webster St., N. W., plans 2-story brick dwelling, slag roof, wood and tile floors, conc. foundation; cost \$18,000 to \$20,000.

D. C., Washington—Henry J. Conner, 1443 Holly St., N. W., has permit erect 2-story brick and hollow tile residence, 1351 Kalmia St., N. W., cost \$10,000.

D. C., Washington—C. W. McKendrie, 1637 Hobart St., N. W., has permit erect brick dwelling, 1427 Hemlock St., N. W., cost \$10,000.

D. C., Washington—Harvard Terrace Development Corp., has permit, erect, 21 dwellings, 3235-3309 Walbridge place, N. W. and 1939 and 1927 Lamont St., N. W., cost \$100,000.

D. C., Washington—Elizabeth Newmayer has permit erect 2-story brick and frame residence, 4700 Forty-seventh St., N. W., cost \$11,725.

Fla., Miami Beach—Russell T. Pancoast, Archt., Lincoln Road, drawing plans for \$25,000 residence, Apache Ave. and Flamingo waterway; reln. conc., conc. block, stucco.

Ga., Augusta—Edward Lynn Drummond, Archt., Augusta, has plans for \$20,000 residence; 2 stories and basement, conc. foundations, brick walls, tile or slate roof, steam heating.

Ga., Atlanta—J. E. Richardson Co., 24 Cain St., N. E., plans 1-story brick veneer residence, 416 Lakeshore Drive, N. E.; 7 rooms and 2 baths, comp. roofing, hot air heating, hardwood and tile floors.

Ga., Atlanta—Greyling Realty Corp., Mortgage Guarantee Bldg., has low bid for dwelling at Carter and Morgan Sts., East Lake, from Yost Construction Co., Candler Bldg.; 1-story and basement, conc. foundations, brick veneer walls, slate roof, hardwood and tile floors, 6 rooms and 2 baths; R. Kennon Perry, Archt., Mortgage Guarantee Bldg.

Md., Baltimore—Hillsdale Country Estate, Forest Park Ave. & Gwynns Falls, care Laurence P. Sangston, Archt., 2435 Forest Park Ave., take new bids this summer alterations, 2-story stone residence.

Tex., San Antonio—Ernest Keeling, 1815 Blanco St., reported, plans erection \$15,000 brick and rock, 2-story residence.

Mo., Clayton, St. Louis—Fred Lane, 4748 St. Louis St., St. Louis, has permit 1½-story brick dwelling, Country Club addition to Normandy Park, St. Louis County.

Mo., St. Louis—S. Loewenstein, 1004 Bermuda St., plans constructing 50 bungalows in Northampton Park.

N. C., Lumberton—R. C. Adams is building brick residence.

Okl., Oklahoma City—Y. S. Shepard, 2009 W. 22nd St., has permit 8 brick veneer dwellings; cost \$5,000 each.

Okl., Tulsa—W. L. James, 224 W. 13th St., has permit for residence.

Tex., Houston—J. G. Kellner, has permit 2-story brick veneer residence, 3208 Ellaide St., cost \$11,500.

Tex., San Antonio—Henry H. Dewar, 121 E. Norwood St., contemplates erecting 2-story tile and stucco residence in Terrill Hills; cost \$15,000.

**Contractors, sub-contractors and suppliers of materials are urged to join in helping to stabilize the construction industry. Use the following label on all bids—It has the approval of responsible concerns:**

**IMPORTANT NOTICE**  
**THIS IS OUR ROCK**  
**BOTTOM BID. IT IS NOT**  
**PADDED AND WILL NOT**  
**STAND A CUT.**

### Government and State

Ark.-Tex., Texarkana—Reading Chandelier Works, 503 Penn St., Reading, Pa. and Newman Mfg. Co., Norwood Station, Cincinnati, Ohio, bidding on lighting fixtures, U. S. post office, bids open May 23.

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, has low bid for elevator plant for Department of Agriculture Extensible Bldg., from Westinghouse Electric Elevator Co., 20 N. Wacker Dr., Chicago, Ill., \$263,750. 5-12

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, advises time for opening bids for U. S. Department of Justice building postponed from May 31 to June 1. 5-12

D. C., Washington—Following prospective estimators, receiving building, St. Elizabeth's Hospital, bids open May 31: **General Contract**—Bahren & Wright, 608 Massachusetts Ave., N.E.; H. R. Blagg Co., N. J. Ave and C St., N.W.; Wills, Taylor & Mafero Corp., 20th and B Sts.; Conneen Construction Co., Munsey Bldg., all Washington; Avon Construction Co., 216 E. Lexington St., Baltimore, Md.; Arthur I. Kraft, Inc., 1560 Broadway; Bersin-Romm Engineering Corp., 11 W. 42nd St.; Walter Kidde Constructors, 140 Dedar St.; Lustig & Well, 145 E. 42nd St., all New York; Shelton Construction Co., 2838 W. 22nd St., Brooklyn, N. Y.; George H. Evans & Co., 1124 Fairmount Ave.; Ralph S. Herzog, 10 S. 18th St., both Philadelphia, Pa.; Ralph Sollitt & Sons Construction Co., South Bend, Ind.; Frank Messer & Sons, Dixie Technical Bldg., Cincinnati, Ohio; Virginia Engineering Co., First National Bank, Newport News, Va.; Banbrook Gowan Co., 4829 Woodward Ave., Detroit, Mich.; S. M. Siessel Co., 514 Ogden Ave., Milwaukee, Wis.; E.-W. Construction Co., 720 N. Wabash Ave., Chicago, Ill.; **Plumbing & Heating**—Maryland Sales & Engineering Co., 312 Washington Blvd., Laurel, Md.; C. & M. Plumbing

& Heating Co., 2156 Young Ave., Memphis, Tenn. **Elevators**—Otis Elevator Co., 810 18th St., N.W.; A. B. See Elevator Co., Inc., 1343 24 St., N.W.; Warsaw Elevator Co., 612 F St., N.W., all Washington; American Elevator & Machinery Co., 500 E. Main St., Louisville, Ky.; General Elevator Co., Bush and Ridgely St., Baltimore, Md.; Shepard Elevator Co., 2413 Colerain Ave.; Warner Elevator Mfg. Co., 2613-31 Spring Grove Ave., both Cincinnati, Ohio; Westinghouse Electric Elevator Co., 30th and Walnut Sts., Philadelphia, Pa. **Refrigeration**—Pennsylvania Engineering Co., 1119 W. Soward St.; Creamery Package Co., 3412 Walnut St.; York Ice Machinery Co., 1238 W. 44th St., all Philadelphia, Pa.; Carbondale Machinery Co., Carbondale, Pa.; Vilter Manufacturing Co., Milwaukee, Wis.; Allen Mitchell & Co., 1818 E St., N.W.; Frick Co., Shoreham Bldg., both Washington. **Electric**—Dean Electric Construction Co., 1013 Garfield St., Oak Park, Ill. 5-12

D. C., Washington—Southern New England Contracting Co., 3 State St., Hartford, Conn., bidding on U. S. Post Office Department Bldg., bids open May 23, general construction; Elevators, Montgomery Elevator Co., Moline, Ill., and Atlantic Elevator Co., Inc., D & Erie Sts., Philadelphia.

D. C., Washington—Following additional prospective estimators, Department of Justice Bldg., bids open May 31: Seglin Construction Co., 60 E. 42nd St.; Arthur I. Kraft, 1560 Broadway; Chas. T. Wills, 286 5th Ave., all New York; John W. Cowper Co., National Press Bldg.; Raymond A. Walsh, Transportation Bldg.; P. J. Carlin Construction Co., 1631 L St.; George E. Wyne, 2539 Pennsylvania Ave.; R. P. Whitty Co., Denrike Bldg., all Washington; A. Raymond Raff Co., 1631 Thompson St.; John McShain, 1610 Thompson St., both Philadelphia, Pa.; Jas. I. Barnes, Logansport, Ind. **Elevators**: S. Heller Elevator Co., Milwaukee, Wis.; Gurney Elevator Co., 1423 H St., N. W.; Haughton Elevator Co., Vermont Bldg.; A. B. See Elevator Co., Inc., 1343 H St., N. W.; Otis Elevator Co., 810 18th St., N. W., all Washington; Elevator Locks Co., 119 N. Washington St., Peoria, Ill.; Westinghouse Electric Elevator Co., 30th and Walnut Sts.; Atlantic Elevator Co., Inc., D & Erie Sts., both Philadelphia, Pa.; General Electric Co., Schenectady, N. Y.; American Elevator & Machine Co., 500 E. Main St., Louisville, Ky.; Gurney Elevator Co., 109 W. 64th St., New York; Wm. A. Muller Elevator & Machinery Co., 920 N. Main St., St. Louis, Mo.; Elevator Supplies Co., Hoboken, N. J. 5-12

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, opens bids May 24, furnishing all labor and materials and performing all work for construction of U. S. post office department building (except elevators, truck lift, dumbwaiters and post office station loading platform door); bids postponed from May 23. 5-12

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., has low bid for lighting fixtures for Public Health Service Bldg., from Newman Mfg. Co., Cleary St. and N. & W. Ry., Cincinnati, Ohio.

Fla., Palm Beach—Following prospective estimators U. S. post office, bids open June 2: Worsham Bros., Medical Arts Bldg., Knoxville, Tenn.; Algernon Blair, First Natl. Bank Bldg., Montgomery, Ala.; Watt & Sinclair, 21 E. 40th St., New York, and 260 Worth Ave., Palm Beach. 5-12

La., Baton Rouge—Office of Quartermaster, Fourth Corps Area, Fort McPherson, Atlanta, Ga., opens bids May 31, construction service building, U. S. National Cemetery.

La., Barksdale Field, Shreveport—U. S. Army, Capt. Geo. E. Lamb, Constr. Quartermaster, opens bids May 24 for 24-garage buildings at Barksdale Field; hollow tile, stucco, tile roof, overhead doors, glazing, conc. floors.

Mo., Jefferson City—Following prospective estimators U. S. post office, bids open May 26: J. P. Cullen & Sons, 109 S. Main St., Janesville, Wis.; Holmboe Construction Co., Petroleum Bldg., Oklahoma City—Okl.: McCarthy Bros. Construction Co., Roosevelt Bldg.; Pelligreen Construction & Investment Co., 816 Pine St.; Kilpstein & Rathmann, 316 N. 8th St.; Selden-Breck Construction Co., Fullerton Bldg.; Wimmer Contracting Co., Victoria Bldg., all St. Louis, Mo.; Ernest Rokahr & Sons, Box 1474, Lincoln, Neb.; Ring Construction Co., Wesley Temple Bldg., Minneapolis, Minn.; H. G. Christman Co.; Ralph Sollitt & Sons Construction Co., both South Bend, Ind.; A. W. Kutsche & Co., 211 Woodward Ave., Detroit, Mich.; Rosen & Fischel, Inc., 11 S. La Salle St., Chicago, Ill.; M. E. Gilcoz, Broadway Hotel Bldg., Monett, Mo.; R. M. Gordon, 440 S. Franklin St., Decatur, Ill.; Jas. I. Barnes, Box 312, Springfield, Ohio; H. W. Underhill Construction Co., 235 N. Waco Ave., Wichita, Kans. 5-12

Tenn., Chattanooga—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, has low supplemental bid for U. S. post office and courthouse building, from Ralph Sollitt & Sons Construction Co., South Bend, Ind., gray marble, \$831,600, pink marble, \$817,600 and white marble, \$813,600; R. H. Hunt & Co., Archts., First Natl. Bank Bldg., Chattanooga, 5-5

Tex., Plainview—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, has low bid U. S. post office, W. B. Smith, El Dorado, Ark., \$89,750. 5-5

Va., Cape Charles—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, opens bids June 3, U. S. post office; cost \$77,500.

Va., Richmond—Office of Quartermaster, U. S. Army, Third Corps Area, Baltimore, Md., opens bids May 20, construction tool house and garage at Cold Harbor National Cemetery, R. F. D. No. 1, and garage extension to tool house at Fort Harrison National Cemetery, R. F. D. No. 5, both Richmond.

W. Va., Beckley—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, reported, will call for bids last 2 weeks in June, contract to be awarded in July, for federal building; S. H. Bridge Beckley and Alex. B. Mahood, L. C. Bldg., Bluefield, W. Va., Archts. 2-18

### Hospitals, Sanitoriums, Etc.

Md., Baltimore—Bd. of Awards, City of Baltimore, City Hall, opens bids May 25, alterations to electrical system at Baltimore City Hospitals; W. Rayner Straus, Mech. Elec. Engr.

Md., Glendale—Following prospective estimators, nurses home, sanitorium and refrigeration bldg., Childrens Tuberculosis Sanatorium, Buena Vista, near Glen Dale, bids open June 2: Henry L. Mass & Sons, 119 Enson St.; Davis Construction Co., 9 W. Chase St., both Baltimore, Md.; W. P. Thurston Co., Inc., 301 S. Fourth St., Richmond, Va.; York Construction Co., Odd Fellows Bldg., Raleigh, N. C.; Agostini Bros., 205 E. 42nd St., New York; A. W. Kutsche & Co., 2111 Woodward Ave., Detroit, Mich.; W. E. Bickerton Construction Co., 515 Cathedral St., Baltimore. 5-12

### Hotels and Apartments

D. C., Washington—Israel Diamond, 1738 Webster St., N. W., has permit erect three 2-story brick and cinder block flats, 5400, 04 and 08 Fifth St., N. W., cost \$18,000.

### Miscellaneous

Tex., Dallas—The MacMillan Co., 1701-07 Ross Ave., has permit remodel 2-story brick building, cost \$10,000.

Tex., El Paso—El Paso Home for Aged Gentle People plans erecting \$20,000 home in Highland Park; Mrs. O. A. Critchett, V.-Pres.

Tex., Victoria—Mrs. Royston Nave, reported, has plans in progress for 1-story library and art gallery building; rein. conc. with art stone facing; Atlee B. and Robert M. Ayres, Archts., Smith-Young Tower; W. E. Simpson Co., Engr., Milam Bldg., both San Antonio, Tex.

### Schools

Ala., Orrville—J. A. Lee, Supt. of Education, reported, announced contract to be let soon for \$30,000 school, replace one recently destroyed by fire; plans being drawn by State Department of Education, through W. E. Bennis, Supvr. of Constr.

Ga., Hogansville—City votes May 25 on \$25,000 school building bonds.

Ga., Hapeville—Following prospective estimators on Hapeville School for Fulton County Bd. of Education, Jere Wells, Supt., Court House, Atlanta, bids open May 24: General Cont.—Norwood Griffin Co., Bona Allen Bldg.; Barge-Tompson Co., 136 Ellis St., N. E.; Southern Ferro Concrete Co., Atlanta Tr. Co. Bldg.; J. S. McCauley & Co., Bona Allen Bldg.; Capitol Construction Co., Standard Bldg.; Smith-Pew Construction Co., 435 Irwin St., N. E.; A. K. Adams Co., 542 Plum St., N. W.; Ray M. Lee, 1071 N. Highland Ave., N. E.; Donald Melver, Candler Bldg.; Christian & Bell, Red Rock Bldg.; Carr Construction Co., Candler Bldg.; J. D. Butler, Constr. Bldg., 111 Walton St., N. W.; Maddox & Tinsinger, Candler Bldg., all Atlanta, Ga.; G. F. Wells, Hapeville, Ga.; Gates Bros., College Park. Heating—Stevenson Co., Inc., 143 Spring St., N. W.; Seckinger Bros. Co., 180 Forsyth St., S. W.; Gardner & Sockwell Co., Walton Bldg.; M. W. Wise Co., Glenn Bldg.; North Side Plumbing Co., 118 Tenth St., N. E.; Wm. A. Manning Co., 145 Linden Ave., N. E., all Atlanta. 5-12

Ky., Covington—See Construction News—Water Works.

Md., Annapolis—Following prospective estimators, Ferndale School, for Anne Arundel County Commrs., bids open May 24, Geo. Fox, Sec.; Ralph MacMurray, 39th & Old York Rd.; Mullan Construction Co., 3945 Greenmount Ave.; C. W. Schmidt, Munsey Bldg.; J. Henry Smith, 300 E. 33rd St.; L. Newton Shipley, 1925 W. Lexington St.; P. C. Street Engineering Co., 404 St. Paul St.; J. H. Smith, 300 E. 33rd St.; Hollyday & Stahl, 522 Park Ave.; Ralph Simmers, 2538 Arabia Ave., all Baltimore; Minter Homes Corp., Dundalk, Md.; B. B. Williams, Waterbury, Md.; Bean Bros., Annapolis, Md.; McCullough Bros., Linthicum Heights, Md.; Morrison Bros., Bethesda, Md. 5-12

Md., Montrose, Baltimore—Montrose School for Girls, Clarence Tucker, Fidelity Bldg., Baltimore, opens bids May 23, 2-story stone school building and cottage. Following prospective estimators: L. L. Chambers, 36th St. and Roland Ave.; Cogswell Construction Co., 406 Park Ave.; Frairie Bros., 19 W. Franklin St.; Tase-Norris Co., 903 Cathedral St.; W. E. Bickerton Construction Co., 515 Cathedral St.; M. A. Long Co., 10 W. Chase St.; Price Construction Co., Maryland Trust Bldg.; Engineering Contracting Co., 404½ St. Paul St.; G. Walter Tovell, 405 McCulloh St.; North Eastern Construction Co., 6 W. Madison St.; Mullan Contracting Co., 3945 Greenmount Ave., all Baltimore; W. H. Sands, Towson, Md. Smith & May, Archts., Baltimore Trust Bldg., Baltimore.

Miss., Ellisville—Bd. of Trustees, Ellisville Public Schools, Wofford Collins, Pres., opens bids May 31, construction proposed 1-story brick school building, cost \$20,000; 8 classrooms, rein. conc. foundation, built-up comp. roof, wood floor, sheet metal work, millwork, glazing, hardware, plumbing, electric wiring, blackboards. Plans from E. C. Hearon & Sons, Archts., Carter Bldg., Hattiesburg, Miss. 3-17

Okla., Tulsa—A. J. Love, Archt., Atco Bldg., and R. M. Black, Archt., Kennedy Bldg., appointed by Bd. of Education to prepare plans for additions to Carver and Booker T. Washington negro schools.

S. C., Denmark—Voorhees College opens bids June 1 for construction girls' dormitory building; 2-stories, conc. foundations, brick walls, comp. roof, hardwood floors. Following prospective estimators: W. A. Cray & Son, 1226 Sumter St.; J. C. Heslep, Carolina Bank Bldg., both Columbia, S. C.; Southeastern Construction Co., 218 W. Second St.; Goode Construction Co., 111½ E. Fifth St., both

Charlotte, N. C.; Dawson Engr. Co., Charleston, S. C. Plans from S. J. Makielski, Archt., National Bank Bldg., Charlottesville, Va.

Tex., Blackwell—Blackwell Independent School, Dist. may vote on \$25,000 bonds.

Tex., Lindale—Lindale Consolidated Independent School Dist. voted \$45,000 school building bonds, also voted consolidation of Flora and Center Hill Rural Schools. 4-28

Va., Lynchburg—School Bd. Comm., Fred W. McWane, Chrmn., approved plans for Fort Hill elementary school building on Mansfield Ave.; 2-stories with basement, 140x105, Colonial red brick; Clarke & Grove, Archts., Kriel Bldg. 5-5

Va., Charlottesville—University of Virginia Law School Alumni announced plans for erecting dormitory and dining hall close to Clark Memorial Law Bldg.

### Stores

Ala., Birmingham—Burger-Phillips Co., Louis Phillips, Pres., 2013 Second Ave., N., advises, have postponed building of store for present. 5-12

D. C., Washington—Department of the Interior, John H. Edwards, Asst. Sec., opens bids May 24 for furnishing all labor and materials for demolition, rough and finish grading, seeding, sodding, planting, transplanting, conc. work, walks, stone work, brick work, wrought-iron work, installing a lawn sprinkler system, road work at Howard University.

N. C., Lumberton—O. M. Britt has permit for 2-story stone and office building, Elm and 4th Sts.; cost \$10,000.

N. C., Winston-Salem—B. C. Snyder, Old Salisbury Rd., has permit to build 2-story buildings, East Fifth St., replace ones recently destroyed by fire, cost \$10,500.

Okla., Oklahoma City—Reinhart & Donovan Co., Commerce Exch. Bldg., have permit, brick store building, cost \$10,000.

Tex., Dallas—Mrs. C. H. Stribbling, 2503 Ross St., and Chas. I. Platter, Merchants Bank Bldg., reported, will build 1-story bldg. 8 stores; Ross & Leonard Sts.; M. C. Kleuser, Archt., Merchants Bank Bldg.

### Theatres

Ga., Dublin—John W. Peck, Jr., Rose Theatre, reported, announced \$25,000 will be expended remodeling building acquired from the E. G. Simmons Real Estate Co.

## BUILDING CONTRACTS AWARDED

### Bank and Office

Md., Baltimore—The Beechfield Co., Frank Carozza, Pres., 2444 N. Charles St., Old Town National Bank Bldg., let sub-contracts, 2-story brick office building; 2436-38 N. Charles St.; Brick, Hydraulic Press Brick Co., Munsey Bldg.; brick mason, Michael Altieri, 4400 Cedar Garden Rd.; W. A. Foreman, Archt., 6005 Clear Spring Rd.; Frank Carozza & Sons, 2444 N. Charles St., Contr. 3-17

Mo., Springfield—State Highway Comsn., T. H. Cutler, Ch. Engr., Jefferson City, let contract, M. E. Gillioz, 1230 Boonville St., Springfield and Monett, Contr., to erect division office building; 2 stories and basement, brick and conc. construction with stone trim, steam heat. 4-28

N. C., Durham—George W. Kane, Contr., has contract for remodeling work on Durham Loan and Trust Co. building; est. cost \$40,000. Watts Carr, Archt. 5-5

Va., Norfolk—W. T. Gregory, Law Bldg., has contract for alterations to Flat Iron Building, Charlotte and Granby Sts.

### City and County

Tex., Houston—City, reported, let contract Albert Myerson, 2119 McGregor St., hollow tile shelter house in MacGregor Park; cost \$12,000. 4-21

Va., Richmond—Claiborne & Taylor, Inc., Broad Grace Arcade Bldg., have contract for scale house and comfort station; Carneal, Johnston & Wright, Archts., Electric Bldg.

### Dwellings

Fla., Miami Beach—G. O. Reed, Inc., 1345 20th St., Miami Beach, has contract concrete piling and seawall work, winter residence 5255 Collins Ave., facing ocean, for Warren Wright, 33 N. La Salle St., Chicago; Martin L. Hampton, Archt., 2939 Indian Creek

Drive; R. W. Edholm, Inc., 825 Lincoln Road, Gen. Contr. 4-21

Fla., Palm Beach—K. D. Alexander, Palm Beach and Great Neck, N. Y., reported, let contract, \$20,000, Mexican type, residence on Brazilian Ave. to W. F. Bonsack, 343 Worth Ave.; Addison Mizner, Archt., 337 Worth Ave.

Ga., Atlanta—J. S. Roberts, 2814 Peachtree Rd., N. W., let contract to G. H. Hartampf, Trust Co. of Georgia Bldg., residence in Garden Hills; 1 story and basement, 6 rooms and 2 baths, conc. foundations, brick veneer walls, comp. roof, hardwood and tile floors, hot air and gas furnace heat; Jas. C. Wise, Archt., 161 Spring St., N. W.

Ga., Atlanta—F. W. Sampson, 89 Inman Circle, N. E., let contract to Sam N. Hodges Co., 579 Peachtree St., N. E., for \$15,000 residence at Habersham and Rivers Rds.; 2-stories and basement, conc. foundations, brick veneer walls, cast stone trim, steel sash, tile and comp. roof; Burge & Stevens, Supvg. Archts., 101 Marietta Bldg.

Ga., Columbus—Ralph King let contract for 2 brick veneer residences to Williams Lumber Co.; 1-story and basement, comp. roof; Jas. W. Biggers, Archt.

Md., Baltimore—M. M. Esterson, 423 S. Hanover St., has permit 2-story brick dwelling and garage, 3403 Bancroft Rd.; slate roof, hot water heat; cost \$9000; Fred Thomas, Archt., 726 E. 33rd St.; Clarence L. Jarvis, Contr., 3004 Woodbine Ave.

Md., Baltimore—Talbot & Boschert, Inc., have permit four 1½-story stucco and brick dwellings and garages, 6410-16 Sefton Ave.; hot-water heat; owner builds.

Md., Baltimore—Eric Jacobson, care Martin Gillet & Co., Lombard & Chesapeake, let contract for alterations to residence, St. Albans Way and Upnor road, to T. V. Morgan, 10 E. Fayette St., Bldr. Office Joseph Evans Sperry, Archt., Calvert Bldg. 4-28

Md., Baltimore—Vernon S. Tomlinson, 1213 William St., let contract for brick, 2-story



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dwelling on Harcourt road to Talbott & Boschert, American Bldg.

Md., Baltimore—Talbott & Boschert, American Bldg., will erect 4 dwellings, 6410-16 Sefton Ave.; brick, 1½-story; Thomas F. Ryan, 6421 Rosemont Ave., has plumbing and heating contract; Oswald & Oswald, 1213 Hull St., brick masons; owner builds. 5-17

Mo., St. Louis—Jeannette Vatterott, Box 45, Clayton, has permit four 1-story dwellings, 3811, 13, 17 and 21 Burgen St., cost \$12,000; Ball Lumber & Supply Co., Bldr., LaDue and Terminal Tracks.

Mo., St. Louis—Eugene Habel, 3713 Washington St., has permit 2-story dwelling, 6245 Itaska St.; 29x35 ft., slate roof, hot water heat; Geo. T. Devereux & Co., Bldrs., 3713 Washington St.

### Government and State

Fla., Jacksonville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, let contract foundations, U. S. court house, J. A. Jones Construction Co., Commercial Bank Bldg., Charlotte, N. C., \$41,644. 5-12

La., Baton Rouge—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, let contract elevator plant, U. S. post office and court house, American Elevator and Machine Co., 500 E. Main St., Louisville, Ky., \$10,442. 4-21

Miss., Biloxi—B. Mifflin Hood Co., Daisy, Tenn., reported, has contract for furnishing roofing tile for Veterans Administration Home; National Construction Co., 631-35 Tower Bldg., Washington, D. C., Gen. Contr. 5-5

Okl., Miami—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, let contract elevators, U. S. post office, Kimball Brothers Co., Council Bluffs, Iowa; James I. Barnes, Logansport, Ind., Gen. Contr. 5-12

S. C., Columbia—Ed. of Directors, South Carolina Penitentiary, Jas. N. Pearman, Supt., Columbia, let contract, construction building for manufacturing purposes, W. A. Cray & Son, 1226 Sumter St., at \$65,450; Jas. B. Urquhart, Archt., Central Union Bldg. 5-5

Tex., Brownsville—Following subcontracts let, U. S. post office and federal court bldg.: Tile and terrazzo, Venice Art Marble Co., Inc., of Texas, 133 Ellis St., San Antonio, Tex.; hollow metal work, Art Metal Construction Co., Inc., Republic Bank Bldg., Dallas; Pyrobar roof deck, United States Gypsum Co., Santa Fe Bldg., Dallas. A. J. Rife Construction Co., Gen. Contr., 1913 N. Harwood St., Dallas. 10-29

Va., Quantico—Navy Department has low bid from Richard Construction Corp., 1841 Broadway, New York, for painting buildings at Marine Barracks at Quantico.

W. Va., Princeton—Boone, Eason and Wood, Inc., L. C. Building, Bluefield, W. Va., have contract for foundation for U. S. post office building at \$12,000. 5-5

### Hospitals, Sanitoriums, Etc.

Md., Baltimore—City of Baltimore, Bureau of Buildings, Wm. A. Parr, Engr., Municipal Bldg., let contract J. Henry Miller, Inc., Miller Bldg., Eutaw and Franklin Sts., at \$847,700, to erect general hospital building of City Hospitals; Palmer & Lamdin, Archts., 513 N. Charles St.; Van Reusselaer Saxe, Struc. Engr., 217 N. Calvert St.; Reeder, Eiser & Akers, Mech. Engrs., 916 N. Charles St. 5-12

Md., Baltimore—Treasury Dept. Jas. A. Wetmore, Act. Supvg. Archt., Washington, let contract elevator plant, U. S. Marine Hospital, Otis Elevator Co., 810 18th St., N. W., Washington, \$30,281. 5-5

Md., Crownsville, Waterbury—Following sub-contracts let, Ward Bldg., Crownsville State Hospital: Struc. and rein. steel, Dietrich Bros., 220 E. Pleasant St., Baltimore; false and orn. steel and iron, Pitts Mfg. Co., Mechanicsburg, Pa.; metal windows, Detroit Steel Products Co., 39 S. Charles St., Baltimore; excavation and cement and conc. work, Wm. E. Feldmeyer, Annapolis, Md.; stone, Ingals Stone Co., Bedford, Ind.; millwork, Oettinger Mill & Lumber Co., S. Elm St. extended, Greensboro, N. C.; plumbing and heating, Hughes Engineering and Construction Corp., 10 E. 21st St., Baltimore. North-Eastern Construction Co., 6 W. Madison St., Baltimore, Gen. Contr.; office of Joseph Evans Sperry, Archts., Baltimore Trust Bldg., Baltimore; Herman Doleman, Struc. Engr., Baltimore Trust Bldg.; James Posey, Mech. Engr., Baltimore Trust Bldg., all Baltimore. 4-28

Md., Perry Point, Perryville—Andrew E. Sable, 3902 Hadley Sq., W., Baltimore, has excavating contract nurses' & attendants'

quarters, U. S. Veterans' administration Hospital; J. L. Robinson Construction Co., 1100 Pierce St., Baltimore, Gen. Contr. 5-5

### Hotels and Apartments

D. C., Washington—Washington Bus Terminal Co., negotiating with McKeever & Goos, Inc., Shoreham Bldg., real estate firm for purchase of Annapolis Hotel, 11-story conc. and steel structure at 1111 H St., N. W.; extensive improvements to be made; part of ground floor will be transformed to downtown bus terminal for number of lines operating through city, providing space for loading and unloading of 14 buses under cover at one time.

Fla., Miami Beach—H. S. Hinkle, Box 1004, New Haven, Conn., let contract, apartment building, 42nd Street & Ocean, Nelson R. Boice, 5736 Pine Tree Drive; C. B. Schoeppl, Archt.

La., New Orleans—H. A. Cabirace, 4717 Baronne St., has plumbing contract and Jones & Laughlin Steel Corp., Balter Bldg., has rein. steel contract for remodeling Louisiane Restaurant and hotel building, Iberville St. near Royal St., Omar H. Cheer, owner; Gervais F. Favrot, Gen. Contr., 500 Balter Bldg.

Mo., St. Louis—H. C. Lake, 6045 Hampton St., has permit 2-story tenement, 3948 Filmore St.; slate roof, hot air heat; owner builds.

### Miscellaneous

N. C., Charlotte—S. and W. Cafeteria Co. let contract to Southeastern Construction Co., 218 W. Second St., Charlotte, at approximately \$75,000 for remodeling building on W. Trade St. terra cotta with bronze front trimmed with aluminum; inside walls to be paneled with wood; building to be acoustically equipped. M. E. Boyer, Jr., Archts., 1522 E. Fourth St.

Okl., Enid—C. E. Gennon, 209 N. Grand St., plans 2-story brick business bldg.; wood joists and floors, conc. foundation, built-up roof; owner builds.

Tex., Dallas—C. A. Walton, 437 W. Page St., and H. Moulard, Irving, reported, let contract, Crisman & Nesbitt, 1915 Alabama, \$10,000, 1-story business bldg., 901-07 Young St.; brick and steel.

### Schools

Md., Owings Mills—Charles T. King & Co., 1017 Cathedral St., has heating and plumbing contract and Electromechanical Co., 432 N. Calvert St., both Baltimore, electric contract for women's dormitory for Rosewood Training School; Davis Construction Co., 9 E. Chase St., Baltimore, Gen. Contr.; Henry P. Hopkins, Archt., 10 E. Mulberry St., Baltimore. 5-12

Md., Pomonkey—Charles County School Commrs., La Plata, let contract to Allen Feaser, Taneytown, Md., for brick school; J. M. Armstrong, Archt., Annapolis, Md.

Mo., Appleton City—Salsbury Construction Co., Sedalia, has contract for \$48,000 school building.

Okl., Welch—City let contract Britton & Barger, Miami, Okla., \$14,231, 1-story and basement brick school building, Butler Co., Archts., Insurance Bldg., Oklahoma City. 4-28

### Stores

Miss., Hattiesburg—James and Paul Vasselus, let contract to T. H. Massengale for face brick store building; Juan G. Landry, Archt.

Mo., St. Louis—Washington University let contract Gamble Construction Co., 620 Chestnut St., alter 7-story mercantile building, 800 Clark St.; Klipstein & Rothman, Archts., 4118 N. 8th St.

N. C., Shelby—Shelby Mill Supply Co. let structural contract to Gus Evans, \$15,000 3-story brick building; Q. E. Herman, Archt.

### Theatres

Md., Baltimore—Dietrich Bros., Pleasant & Davis Sts., have contract for steel work for brick and stone theatre, 614-18 N. Gilmore St., for Harlem Theatre Co.; L. Schoenlein & Son, 3006 Parkside Ave., Gen. Contr. William P. Smith, Archt., American Bldg. 4-14

### Warehouses

Md., Baltimore—Otis Elevator Co., 120 S. Paca St., has contract for elevator for addition to warehouse for F. A. Davis & Son, 118-21 S. Howard St.; J. Raymond Gerwig, 22 S. Liberty St., Contr. 5-12

## Trade Literature

**Cement Directory.**—The Bradley Pulverizer Co., Boston, Mass., with works at Allentown, Pa., has issued the American Cement Directory for 1932. This is the twentieth consecutive edition published by this company.

**Duriron Literature.**—Literature recently issued by the Duriron Company, Inc., Dayton, Ohio, includes Bulletins Nos. 511, 512 and 513 devoted to Centrifugal Pumps in Alloy Steels; Bulletin No. 514 on Valves and Fittings of Alloy Steels, and another bulletin on Physical and Chemical Data on Corrosion-Resisting Alloy Steel.

**Hydraulic Stokers.**—Orr & Sembower, Inc., Reading, Pa., are distributing a booklet on Victor Hydraulic Stokers. Information submitted is almost entirely in the form of illustrations, rather than in lengthy description. Beginning the manufacture of high pressure boilers in 1885, Orr & Sembower, Inc., since then have earned wide recognition for their products.

**Power Mower and Push Rake.**—The Caterpillar Tractor Co., Peoria, Ill., is distributing a folder devoted to the Caterpillar Power-Mower and the Caterpillar Push Rake, both designed primarily for farming operations but applicable to road and street work and to some contracting operations. The mower may be used with Caterpillar Fifteen and Twenty tractors, while the push rake may be used with these tractors or with the former Ten or Fifteen.

**Port and Terminal Charges.**—The Board of Engineers for Rivers and Harbors of the War Department, in cooperation with the United States Shipping Board, has issued a supplement to the 1931 edition of Miscellaneous Series Report No. 1, entitled "Port and Terminal Charges at United States Ports." Additional copies of the original volume and the supplement may be obtained from the Superintendent of Documents, Washington, D. C., at \$1.25 per copy for the former and 15 cents for the latter.

**System in Accounting.**—Under the caption, "Systems Installation in Accounting," Burrill-Snow, Inc., New York, have published a 500-page volume, the aim being to "present the subject of Constructive Accounting in such manner that the reader may understand the theory of system structure, both from the standpoint of the development of principles and their adaptation to the particular needs of the business under survey." The work is by George J. Geier, B.C.S., and Oscar Mautner, C.P.A., instructors in Accounting, School of Commerce, Accounts and Finance, New York University.

**Standards Yearbook.**—Increasing importance placed upon standardization by foreign governments and world-wide developments along this line, as well as other scientific achievements, are discussed in "The 1932 Standards Yearbook," published by the Bureau of Standards, Department of Commerce. Subjects covered range from accident prevention to zoning systems and include references to important work having a direct bearing on reducing cost to the public and increasing profit of manufacturers. Copies may be obtained from the Superintendent of Documents, Washington, D. C. for \$1 each.



# WANT SECTION

## THE CLASSIFICATIONS IN THIS SECTION ARE:

### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

### Machinery and Supplies

**Candy Making Machinery.**—C. S. Burgess, 1701 Pearl St., Jacksonville, Fla.—Wants prices and data from manufacturers of candy making machinery.

**Dry Kila.**—Zamora, Henriquez Y Compania (Comsn. Agts.), Apartado No. 104, Tegucigalpa, Honduras, C. A.—Wants prices and data at once on equipment for drying pine wood thoroughly at low cost for match manufacture; equipment must also extract all or part of resinous content; match plant was recently established in above named city and owners are experiencing difficulty with wood used on account of moisture content.

**Electric Locomotive.**—R. E. Boggs (Mch. Dealer), Comer Bldg., Birmingham, Ala.—Wants prices and data on electric locomotive for underground work, 10 tons, 42 in. gauge, 250 volts, d. c.; requests full information and price in first letter.

**Ore Grinding and Pulverizing Mill Equipment.**—Marshall Haney, Geer, Va., purchasing agent for syndicate developing Crimora manganese mine in Augusta County, wants prices and data on equipment for pilot grinding and pulverizing mill for preparing high grade manganese dioxide ore for commercial trade.

**Stone Crushing and Washing Plant.**—Kansas City Material Co., W. M. Spencer, Pres., 144 N. Kentucky Ave., Kansas City, Mo. formerly A A A Material Co.—Wants prices and data on stone crushing and washing plant of 2000 tons daily capacity, including hydraulic stripping at rate of 100 cu. yd. of solids per hr.

**Water Motors (Small).**—John H. Mitchell, 517 Hearst Tower Bldg., Baltimore, Md.—Wants data and prices on small water motors similar to type used for washing machines; may buy in quantities.

**J. J. Miller Construction Co., Illmo, Mo.,** contractor for city water works improvements, wants following:

- (1) **Pipe (Cast Iron)**—8, 6, 4, 2-in., 150 lb. test composition joint material
- (2) **Pump**—200 gal., 200 ft. setting.

St. Petersburg Industry Bld., 707 Times Bldg., St. Petersburg, Fla.—Wants prices and data on:

- (1) **Chopping Machines**—for chopping root vegetables or forage for livestock and poultry
- (2) **Fish Meal and Fish Scrap Dryers and Equipment**
- (3) **Furniture Findings**—for manufacture of furniture, including upholstered furniture
- (4) **Paints**—for decorating shells and finer grades of plastic materials
- (5) **Saws (Carborundum)**—and frame machine, for cutting marble
- (6) **Shark Hide Skinning and Preparing Tools and Equipment**—for leather tanning operations.

McBride Grain & Feed Co. (Mfrs.), Newnan, Ga.—Wants prices and data following, delivered to Newnan, Ga.:

- (1) **Boiler**—125 h. p., 125 or 150-lb. pressure, with stack
- (2) **Engines**—one 75 h. p., one 50 h. p.
- (3) **Pump**—feed water, with heater.

R. R. Mathews, Oxford, Fla.—Wants prices and data on:

**Canning Plant Equipment**—for canning peas and beans

**Pea Huller (Power)**—Sprague-Sells Corp., Junior.

W. E. Dunn, Jr. (Mfrs. Agt.), 409 Park Ave., S. E., Atlanta, Ga.—Wants prices and data on:

- (1) **Generators**
- (2) **Metal-Working Machinery**
- (3) **Motors**
- (4) **Woodworking Machinery.**

### Building Material and Equipment

**Lumber.**—C. S. Thompson, Box 835, Christiansburg, Va.—Wants 50,000 ft. of Georgia pine lumber for wood frame flour mills at Graysor Town.

C. W. McKendrie, 1637 Hobart St., N. W., Washington, D. C., wants prices on following for dwelling:

**Floors**—hardwood and linoleum  
**Plaster Board**  
**Roof**—slate and tile  
**Sprinklers.**

Israel Diamond, 1738 Webster St., N. W., Washington, D. C., wants prices on following for dwelling:

**Cast Stone**  
**Electric Refrigerators**  
**Plaster Board.**

Henger & Chambers Co., Contr., 1600 Dallas Bank & Trust Bldg., Dallas, Tex., want prices on following for \$120,000 motor freight terminal for Southwest Terminals, Inc.:

**Metal Doors**  
**Roofing**—built-up  
**Structural Steel**  
**Steel**—sash and trim.

Shelby Supply Co., C. G. Morgan (Mill Supplies, Mfrs. Agts., etc.), Shelby, N. C., wants prices on following for proposed new building:

**Steel Sash.**  
Gunn & Goll, Inc., 69 36th St., N. E., Miami, Fla., want prices on following:  
**Floors**—hardwood, linoleum and tile  
**Tile.**

### Miscellaneous

**Furniture Manufacturing Materials.**—F. M. Hudder, West Jefferson, N. C., opening plant to make living room suites only—Wants prices and data on materials.

**Pipe and Fittings.**—Wm. E. Dunn, Jr. (Mfrs. Agt.), 409 Park Ave., S. E., Atlanta, Ga.—Wants prices and data on 10,000 ft. or more of 4 to 12-in. used cast iron pipe and fittings, good condition, or any quantity in position to furnish; also lots of used wrought and steel pipe.

### Bids Asked

**Airway Lighting System.**—Dept. of Commerce, Aeronautic Branch, Airways Division, Lighthouse Service, Washington, D. C.—Bids June 2 for installing lighting facilities on Little Rock section of Dallas-Louisville Airway; work consists of installing 26 airways standard rotating electric beacon lights, airways electric code beacon and acetylene blinker between Little Rock and Nashville, Tenn., distance of 325 miles; 3 of rotating electric beacon lights and electric code beacon will be installed at intermediate landing fields, which will also have boundary lighting systems, including day markers, etc.; beacons installed on 51-ft. or other height skeleton steel towers; certain of equipment used is special equipment for Airways Division and will be furnished by the Government to bidder at convenient railroad point; special equipment includes steel skeleton towers, rotating beacons, astronomic time switches, control cabinets, etc.; plans \$5; Sch. 24340; W. S. Erwin, Ch., Div. of Purchases and Sales.

**Animal Shoes.**—Quartermaster Supply Officer, Fort Sam Houston, San Antonio, Tex.—Bids May 26 for approx. 97,000 lb. animal shoes, Cir. 227.

**Athletic Supplies.**—Depot Quartermaster, Marine Corps, 1100 S. Broad St., Philadelphia, Pa.—Bids May 31 for football shoes and jerseys, basketball shoes and shirts, athletic stockings.

**Bituminous Material Distributor.**—Dist. Comms., Room 320 Dist. Bldg., Washington, D. C.—Bids May 27 for bituminous material distributor.

**Blank Books, etc.**—Office of Public Printer, Government Printing Office, Washington, D. C.—Bids June 6 for blank books, etc., during next fiscal year.

**Boiler and Fuel Burning Equipment.**—Veterans Administration, Room 764, Arlington Bldg., Washington, D. C.—Bids June 7 for installing new boiler and fuel burning equipment, Veterans Administration Hospital, Augusta, Ga.

**Brass Water Pipe.**—Supv. Archt., Treasury Dept., Washington, D. C.—Bids June 3 for brass water pipe for post office and court house, Port Arthur, Tex.

**Bridge and Culvert Lumber.**—Issaquena County Supvrs., W. H. Birdsong, Clk., Mayersville, Miss.—Bids June 6 for furnishing 50,000 ft., more or less, cypress and creosoted bridge and culvert lumber, delivered at Grace.

**Bridges.**—State of Kentucky, 3 bridge projects, May 25. See Construction News—Roads, Streets and Paving.

**Bridge.**—Natchitoches, La., June 6. See Construction News—Bridges, Culverts and Viaducts.

**Bridges.**—State of Maryland, 2 bridges, May 24. See Construction News—Bridges, Culverts and Viaducts.

**Cable.**—U. S. Coast Guard Headquarters, Washington, D. C.—Bids May 27 for 35,000 ft. cable.

**Chassis.**—Pur. Agt., Post Office Dept., Washington, D. C.—Bids June 2 for 300 motor truck chassis having gross load carrying capacity of not less than 5200 lb., including cab body and load.

**Coal Tar.**—Florida, May 24. See Construction News—Roads, Streets and Paving—Proposed.

**Coal.**—Supply Service, Veterans' Administration, Washington, D. C.—Bids June 2 for anthracite coal for various deliveries during next fiscal year.

**Coal.**—U. S. Engr. Office, Wilmington, N. C.—Bids June 7 for 6000 tons bitum. coal during next fiscal year.

**Creosoted Lumber.**—See Road Building Machinery.

**Creosoted Timbers.**—Dist. Comms., Room 320, Dist. Bldg., Washington, D. C.—Bids June 2 for 28,000 bd. ft. treated Southern pine timbers, No. 1 common, for D. C. penal institute.

**Culvert Extensions and Sewer.**—New Madrid, Mo., June 7. See Construction News—Miscellaneous Construction.

**Dikes.**—Allenhurst, Fla., June 1. See Construction News—Drainage, Dredging and Irrigation.

**Driveway Repairs.**—Custodian, U. S. Post Office, San Marcos, Tex.—Bids May 25 for driveway repairs.

**Electrical System.**—Baltimore, Md., May 25. See Hospitals, Sanitoriums, etc., Buildings Proposed.

**Elevator Repairs.**—Quartermaster Corps, Poland and Dauphine Sts., New Orleans, La.—Bids May 23 for repair of elevators, Cir. 5

**Elevator.**—Supv. Archt., Treasury Dept., Washington, D. C.—Bids June 6 for electric elevator plant for post office and court house, Jefferson City, Mo.

**Fire Stairways, etc.**—Dist. Comms., Room 509 Dist. Bldg., Washington, D. C.—Bids May 27 for erecting complete exterior fire stairways, etc., to 13 school buildings at various locations in District of Columbia.

**Fuel Oil.**—City Comsn., Thomas C. Imeson, Chmn., Jacksonville, Fla.—Bids May 25 for furnishing delivered from time to time, city's requirements of fuel oil approximating 350,000 bbl. per annum of 42 gal. per bbl., delivery under contract commencing July 1.

**Fuel.**—City School Bd., W. T. R. Morris, Act. Clk and Supvr., 312 N. Ninth St., Richmond, Va.—Bids May 23 for furnishing fuel (coal and wood) for public schools.

**Gas Mains.**—See Water and Gas Mains.

**Grading.**—Washington, D. C., May 23. See Construction News—Roads, Streets and Paving.

**Highway Trucks and Magnets.**—State Highway Comsn., C. M. Williamson, Dir., Jackson, Miss., bids May 31 for one 1½ ton truck with dual rear wheels and gear reduc-

tion, suitable for carrying road magnets; 2 or 3 electro-magnets suitable for use on 1½-ton truck for road sweeping.

**Hull Work.**—U. S. Coast Guard Headquarters, Washington, D. C.—Bids May 31 for overhauling and refinishing hull of C. G. 27.

**Hydraulic Settlement of Fills.**—Mississippi. May 31. See Construction News—Roads, Streets and Paving.

**Jetties.**—State of Maryland, May 24. See Construction News—Bridges, Culverts and Viaducts.

**Kitchen Equipment, etc.**—Office of Public Works Officer, U. S. Naval Air Station, Pensacola, Fla.—Bids May 25 for furnishing cafeteria units, Spec. 6858.

**Landscaping.**—Washington, D. C., May 24. See Schools—Buildings Proposed.

**Lawn Sprinkler System.**—Supvg. Archt., Treasury Dept., Washington, D. C.—Bids June 3 for lawn sprinkler system for court and custom house, Laredo, Tex.

**Levee.**—Holly Springs, Miss., May 30. See Construction News—Miscellaneous Construction.

**Levee.**—Arkansas, May 24. See Construction News—Miscellaneous Construction.

**Levee.**—Mississippi, May 24. See Construction News—Miscellaneous Construction.

**Lumber.**—Quartermaster Supply Officer, Fort Sam Houston, San Antonio, Tex.—Bids May 24 for 26,000 ft. white pine lumber, Cir. 226.

**Medical Supplies, Instruments, etc.**—Pur. Officer, Dept. of Interior, care U. S. Indian Warehouse, St. Louis, Mo.—Bids May 26 for medical supplies, etc., during next fiscal year.

**Painting.**—Property Officer, Room 18, Army War College, Washington, D. C.—Bids May 27 for painting ceilings, etc., Cir. 4.

**Painting.**—Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids June 1 for painting exterior of 146 buildings at marine barracks, Paris Island, S. C., Spec. 6850.

**Painting.**—Custodian, U. S. Post Office, Abilene, Tex.—Bids May 23 for interior painting.

**Painting.**—Custodian, U. S. Custom House, Mobile, Ala.—Bids May 31 for interior and exterior painting.

**Painting Material.**—State Hospital Removal Improvement & Landsale Comsn., New Capitol Bldg., Jackson, Miss.—Bids May 28 for furnishing painting material for Insane Hospital, Whitfield, Miss.; N. W. Overstreet, Archt., Jackson, Miss.

**Painting.**—Bureau of Yards & Docks, Navy Dept., Washington, D. C.—Bids May 25 for painting 2 steel towers at Naval Radio Station, Brownsville, Tex.

**Partitions (Steel and Glass).**—Supvg. Archt., Treasury Dept., Washington, D. C.—Bids May 26 for steel and glass partitions.

**Pipe (Reinforced Concrete).**—See Sewer Construction.

**Pipe (Vitrified).**—See Sewer Construction.

**Power Cable.**—Sewerage & Water Bd., Office of Pur. Agt., Room 502, 528 Carondelet St., New Orleans, La.—Bids May 23 for power cable.

**Repair Shop Alterations.**—Dist Comms., 309 Dist. Bldg., Washington, D. C.—Bids May 24 for making alterations, etc., at D. C. repair shop, 1617 U St., N. W.

**River Bank Protection.**—Bd. of Levee Comms., Orleans Levee Dist., A. L. Shushan, Pres., 606 Common St., New Orleans, La.—Bids May 27 for furnishing labor, materials, equipment and performing all work for constructing and placing approximately 3000 ft. of fascine mattresses ballasted with rock Subaqueous protection work at outer end of Shushan Airport in Lake Pontchartrain; John Klorer, Ch. Engr.

**Roads.**—State of Oklahoma, 3 roads, May 24. See Construction News—Roads, Streets and Paving.

**Roads.**—State of Maryland, 3 roads, May 24. See Construction News—Roads, Streets and Paving.

**Road Materials.**—State Highway Comsn., A. P. Tugwell, Chmn., Room 702, Louisiana Natl. Bank Bldg., Baton Rouge, La.—Bids May 31 for following materials: Washed and screen gravel, 40% sand-clay gravel, roof steel, clam shell, crushed limestone, slag and sand in such quantities as may be required by Maintenance Dept. during June; Harry B. Henderlite, State Highway Engr.

**Roads.**—Florida, May 24. See Construction News—Roads, Streets and Paving.

**Roads.**—State of Florida, May 24. See Construction News—Roads, Streets and Paving.

**Roads.**—State of Kentucky, 13 roads, May 25. See Construction News—Roads, Streets and Paving.

**Road.**—Clayton, St. Louis, Mo., May 25. See Construction News—Roads, Streets and Paving.

**Road Building Machinery and Material.**—Leflore County Supvrs., A. R. Bew, Clk., Greenwood, Miss.—Bids June 6 for one or more road graders, one or more wheel scrapers and 3 or more cars of creosoted lumber, for use on public roads and bridges.

**Roads.**—State of Kentucky, 16 roads, June 15. See Construction News—Roads, Streets and Paving.

**Roads.**—Mississippi, May 31. See Roads, Streets and Paving.

**Roofing.**—Quartermaster, A. C. A. F. S., Kelly Field, San Antonio, Tex.—Bids May 23 for 1500 rolls prepared roofing, Cir. 28.

**School Supplies.**—Bd. of Education, Houston Independent School Dist., H. H. Mills, Business Mgr., 1600 Washington Ave. or P. O. Box 1226, Houston, Tex.—Bids May 24 for miscellaneous list of school supplies, maps, charts, science supplies, library books, coal, wood, etc., for school year 1932-33.

**School Furniture and Equipment.**—Calcasieu Parish School Bd., H. A. Norton, Sec., Lake Charles, La.—Bids June 7 for furniture and equipment for new Lagrange Elementary school bldg. near Lake Charles.

**Service Building.**—Baton Rouge, La., May 31. See Government and State—Buildings Proposed.

**Sewer Construction.**—Bd. of Awards, Howard W. Jackson, Pres., Baltimore, Md.—Bids May 25 for building sanitary sewers and storm water drains in miscellaneous sewer districts, Storm Water Contr. 176; work comprises approximately 740 ft. 6x6 ft. rectangular rein. conc. drain; 160 ft. 36-in., 560 ft. 33-in., 1080 ft. 30-in., 475 ft. of 24-in. and 27-in. diam. rein. conc. pipe drain; 900 ft. 21-in. and 24-in., 2370 ft. 15-in. and 18-in., 3735 ft. of 6-in. and 8-in. diam. vit. pipe sewer; 4080 ft. 4-in. and 6-in. under-drain; 3800 square ft. vit. clay liner plates of vit. brick and other miscellaneous items; George E. Finck, Sewerage Engr.

**Sewage Pump and Motor.**—City of Winchester, Ky., Lindsey Faulkner, City Clk.—Bids May 27 to furnish and install 350 gal. per minute electrically driven centrifugal sewage pump and motor for sewage disposal plant; bidders to submit separate bid stating what allowance will be made, or what credit given, for present 200 g.p.m. pump and motor in service at plant; additional information on application to City Clk.; T. C. Piersall, Commr. of Public Property.

**Shovels.**—Chemical Warfare Service, Edgewood Arsenal, Md.—Bids May 23 for gasoline, crawler type shovel, Cir. 81.

**Stationery.**—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids June 1 for stationery for art classes, kindergarten, mechanical drawing classes and classroom supplies for Dept. of Education; Joshua R. Jolly, Act. Sec., Bd. of School Comms.

**Storm Cave.**—Bd. of Directors, School Dist. No. 16, J. K. Douglass, Clk., Newkirk, Okla.—Bids May 19 for storm cave.

**Street.**—Wheeling, W. Va., May 17. See Construction News—Roads, Streets and Paving.

**Street Lighting.**—Ch., Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids May 25 for light standards, cables, ducts, potheads, transformers, switchboard panel, insulators, etc., for completing system at Marine Barracks; plans \$10.

**Street Building Materials.**—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids May 25 for crushed stone, gravel, sand, cinders, slag, etc.

**Structural Steel Plates.**—U. S. Engr. Office, Huntington, W. Va.—Bids May 19 for structural steel plate.

**Table Tops, etc.**—Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids May 25 for table tops and ventilating hoods at marine barracks, Quantico, Va., Spec. 6873; \$10 deposit required for plans, etc.

**Tile.**—Supt., St. Elizabeth's Hospital, Washington, D. C.—Bids May 24 for 10,000 pieces quarry floor tile.

**Tool House and Garage.**—Richmond, Va., May 20. See Government and State—Buildings Proposed.

**Tractor.**—Sanitary & Drainage Comsn., E. D. Jervey, Engr., 39 Broad St., Charleston, S. C.—Bids May 19 for 10-20 McCormick-Deering industrial tractor.

**Trucks.**—Sanitary and Drainage Comsn., E. D. Jervey, Engr., 39 Broad St., Charleston, S. C.—Bids May 19 for two 1½-ton trucks with closed cab and 1½-yd. auto-

matic dump body; price bid to include trade in of 2 Chevrolet trucks.

**Truck Bodies.**—Pur. Agt., Post Office Dept., Washington, D. C.—Bids June 2 for 300 200-cu. ft. capacity standard mail truck bodies without cabs, unmounted; 300 200-cu. ft. capacity standard mail truck bodies without cabs, unmounted, in lots of 88, 57, 51, 45, 44 and 15.

**Truck Bodies.**—Pur. Agt., Post Office Dept., Washington, D. C.—Bids May 27 for 140 395-cu. ft. capacity, standard mail truck bodies, without cabs, unmounted; 140 395-cu. ft. capacity, standard mail truck bodies, without cabs, unmounted.

**Truck Chassis.**—Pur. Agt., Post Office Dept., Washington, D. C.—Bids May 27 for 160 motor truck chassis having gross load carrying capacity of not less than 12,000 lb., including cab, body and load; 275 motor truck chassis having gross load carrying capacity of not less than 8000 lb., including cab, body and load.

**Varnishing Floors.**—Supvg. Archt., Treasury Dept., Washington, D. C.—Bids May 23 for varnishing cork tile floors.

**Water Hose.**—Quartermaster Supply Officer, Fort Sam Houston, San Antonio, Tex.—Bids May 26 for 9000 ft. water hose, Cir. 228.

**Water and Gas Mains.**—City of St. Petersburg, Fla., W. M. Cotton, City Mgr.—Bids May 16 for constructing water and gas mains across Boca Ciega Bay at Long Bayou near Seminole Bridge; project consists of a submerged crossing, 2355 ft. long, 8-in. water main and 4-in. gas main complete with all appurtenances.

**Wire Rope.**—U. S. Engr. Office, P. O. Box 97, Memphis, Tenn.—Bids May 27 for wire rope.

Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids dates indicated for following, delivery as stated:

**Cloth.**—enameled, black, 18,000 yd., Sch. 8043, Mare Island, Calif., May 31

**Electric Horns.**—Sch. 8050, Hampton Roads, Va., and Mare Island, Calif., May 31

**Packing.**—wick, rope, Sch. 8052, various east and west coast points, May 31

**Lumber.**—Sch. 8065, various east and west coast points, May 31

**Lumber.**—Sch. 8066, Brooklyn, N. Y., May 31

**Lumber.**—Sch. 8067, Philadelphia, Pa., May 31

**Lumber.**—Sch. 8068, various east coast points, May 31

**Flasks.**—steel, seamless, Sch. 8070, various east and west coast points, May 31

**Diesel Generating and Pumping Units.**—and spare parts, Sch. 8071, various east and west coast points, May 31

**Chassis.**—motor truck, with mounted fueling unit, Sch. 8087, May 24, New York, N. Y.

**Bomb Racks.**—external, Sch. 8092, 300, Sch. 8092, Philadelphia, Pa., June 7

**Switchboards.**—and spare parts, Sch. 8022, various east and west coast points, May 31

**Waterproofed Paper.**—22,000 sheets, Sch. 8044, Mare Island, Calif., May 31

**Canton Flannel.**—unbleached, Sch. 8045, various east and west coast points, May 31

**Resistance Wire.**—Sch. 8047, Brooklyn, N. Y., and Puget Sound, Wash., May 31

**Bed Spreads.**—700, cotton, dimity, Sch. 8048, June 7

**Searchlights.**—incandescent, spare parts and special tools, Sch. 8049, Brooklyn, N. Y., May 31

**Twine.**—cotton, swab, 30,000 lb., Sch. 8063, Mare Island, Calif., May 31

**Steel.**—corrosion-resisting, 1700 lb., Sch. 8064, May 31

**Dishwashing Machines.**—2, Sch. 8072, Lakehurst, N. J., May 31

**Condenser Tubes.**—admiralty metal, Sch. 8075, Mare Island, Calif., and Puget Sound, Wash., May 31

**Flotation Gear Bags.**—Sch. 8076, Hampton Roads, Va., and San Diego, Calif., June 7

**Abrasive Wheels.**—Sch. 8083, various east and west coast points, June 7

**Zinc-oxide.**—dry, Sch. 8085, various east and west coast points, June 7

**Wire Rope.**—steel, Sch. 8088, Yorktown, Va., May 31

**Unit Heaters.**—14, Sch. 8095, Mare Island, Calif., June 7

Marine Corps, 2. M. Dept., Washington, D. C.—Bids until dates, delivery as stated, for:

**Miscellaneous Supplies.**—typewriter supports, salt containers, steel clamps, screws, etc., Quantico, Va., Sch. 883, May 23, Quantico, Va.

**Coal.**—various posts, Sch. 1, May 25

**Mowers.**—2, Quantico, Va., May 25, Sch. 888

**Miscellaneous Hardware.**—Sch. 880, Quantico, Va., May 23



Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids dates indicated for following, delivery as stated:

**Mower**—power tractor, gasoline-driven, Sch. 8013, New York, May 24  
**Thread**—2000 lb., linen, waxed, Philadelphia, Pa., Sch. 8014, May 24  
**Chains**—510, mechanical-telegraph, brass, Brooklyn, N. Y., Sch. 8018, May 24  
**Turpentine**—2000 gal., Mare Island, Calif., Sch. 8023, May 24  
**Faucets and Valves**—various east and west coast points, Sch. 8038, May 31  
**Power Plant Equipment**—and rotating winches, spare parts, various east and west coast points, Sch. 8039, May 24  
**Coal**—bituminous or semi-bituminous, Great Lakes, Ill., Sch. 7997, June 6  
**Pilot Balloons**—Washington, D. C., Sch. 8001, May 24  
**Goggles**—goggle frames, lenses and sand-blasting helmets, Brooklyn, N. Y., Sch. 8008, May 24  
**Linoleum**—various east and west coast points, Sch. 8010, May 24  
**Truck (Tractor)**—gasoline engine driven, San Diego, Calif., Sch. 8011, May 24  
**Aluminum**—sheet aluminum alloy, Mare Island, Calif., Sch. 8012, May 24  
**Washing Machine**—Hampton Roads, Va., Sch. 8015, May 24  
**Hydrochloric Acid**—43,000 lb., Mare Island, Calif., Sch. 8024, May 24  
**Battery Charging Outfit**—Thorne, Nev., Sch. 8025, May 24  
**Motor Boat Gasoline Engine Parts**—Hampton Roads, Va., Sch. 7944, May 31  
**Switchboards and Spare Parts**—various east and west coast points, Sch. 8003, May 31  
**Air Hose Clamps**—couplings and gaskets, Sch. 8034, May 31  
**Oakum**—spun, Boston, Mass., Sch. 8035, May 31  
**Floor Tiles**—Norfolk, Va., and Mare Island, Calif., Sch. 8036, May 31  
**Boat Facings**—brass, naval, various east and west coast points, Sch. 8041, May 31  
**Thread**—cotton and jute twine, Brooklyn, N. Y., Sch. 8051, May 24  
**Truck**—gasoline powered, drive and lift, Norfolk, Va., Sch. 8056, May 24  
**Skids**—steel, and stanchions, Norfolk, Va., Sch. 8057, May 24  
**Platforms**—1000, steel leg, Boston, Mass., Sch. 8060, May 31  
**Truck**—industrial, electric, Boston, Mass., Sch. 8062, May 24  
**Blowers**—forced draft, horizontal, motor driven, and spare parts, various east and west coast points, Sch. 8074, May 31  
**Pumps**—centrifugal, brine overboard, and spare parts, various east and west coast points, Sch. 8028, May 31  
**Fire Engine**—pumping, complete with hose body, Norfolk, Va., Sch. 8031, May 24  
**Radio Equipment**—heterodine frequency meters, and spare parts, Washington, D. C., and Philadelphia, Pa., Sch. 8040, May 24  
**Safety Treads**—900, Brooklyn, N. Y., Sch. 8042, May 24  
**Lubricating Gun Fittings**—pressure, Brooklyn, N. Y., Sch. 8046, May 24  
**Table Felt**—1440 yd., Brooklyn, N. Y., Sch. 8053, May 24  
**Motor Boat Gasoline Engine Parts**—distributors, starting motors, generators, and spares, Hampton Roads, Va., Sch. 8058, May 24

Dept. of Agriculture, Div. of Purchase, Sales and Traffic, Washington, D. C.—Bids until dates indicated, for use at places stated, for:

**Microscope**—complete, in hardwood case with lock and key, Washington, Pro. 1702, May 30  
**Microscope**—1 or 2, non-objective binocular research, Fayetteville, Ark., and Washington, D. C., Pro. 1701, May 24; same, Washington, D. C., Pro. 1757, May 27; same, Washington, Pro. 1759, May 27  
**Recoating Steel Stereotype Plates**—during next fiscal year, Pro. 1761, May 24  
**Photomicrographic Camera**—Chadbourne, N. C., Pro. 1761, May 24; same for Washington, D. C., Pro. 1763, May 27  
**Bellows**—1, 2 or 3, Washington, Pro. 1770, May 24  
**Motion Picture Camera**—and tripod, Washington, Pro. 1771, May 27  
**Hygrothermographs**—9, Washington, Pro. 1773, May 24  
**Automobile Trucks**—various deliveries, Pro. 1773, May 27; same for Rosslyn, Va., Pro. 1772, May 24  
**Ultraviolet Illuminator**—Fayetteville, Ark., 1756, May 24

Procurement Div., Veterans' Administration, Washington, D. C.—Bids dates indicated for:

**Spark Guards**—3, made of wire cloth, Cir. G-325, May 24  
**Dental Impression Compound**—during next fiscal year, Cir. 71-D, May 23  
**Vulcanite Dental Rubber**—during next fiscal year, Cir. 66-D, May 23

**Waste Receptacles**—as required during next fiscal year, Cir. 62-D, May 24  
**Grinders**—as required during 6 or 12 months' period, Cir. 501-M, May 23  
**Hand Trucks**—during 6 or 12 months' period, Cir. 493-M, May 23  
**Air Compressors**—during 6 or 12 months' period, Cir. 488-M, May 24  
**Sanders**—portable, during 6 or 12 months' period, Cir. 535-M, May 23  
**Floor Mop Handles**—3000, Cir. G-323, May 23  
**Laundry Equipment**—4 washing machines, 2 extractors and 1 tumbler drier, Cir. 553-M, May 23  
**Instrument Cabinets**—4, 4 medicine cabinets and 4 ward dressing carriages, Cir. 825, May 23  
**Furniture (Steel)**—31 steel dressers, 50 steel side chairs, 55 steel dressers and 50 steel desks, Cir. G-327, May 27  
**Medicaments**—during next fiscal year, Cir. 875, May 23  
**Scales**—diet and food, during 6 or 12 months' period, Cir. 849, May 24  
**Screw Press**—25-ton, and 25-ton rack and pinion press, Cir. 513-M, May 23  
**Electric Fans**—30, Cir. 519-M, May 23

**Electrocardiograph Accessories**—during next fiscal year, Cir. 854, May 25  
**Invalid Chairs**—Cir. 823, bids postponed from May 17 to May 24

Quartermaster, Marine Corps, Navy Bldg., Washington, D. C.—Bids on indicated dates for following:

**Clay Pipe**—May 25, 380 ft. 15-in., 12 each 15-in., and 6-in. Y-branches, delivery Quantico, Va., Sch. 898;  
**Hardware**—May 25, expansive bits, copper cloth, boning knives, center punches, delivery Quantico, Va., Sch. 901  
**Furniture**—May 25, bureaus, chiffoniers, chairs, tables, delivery Quantico, Va., Sch. 889  
**Electrical Refrigerators**—May 31, 50 for Quantico, Va., 18 for Philadelphia, Pa., 2 for Charleston, S. C., 2 for Washington, D. C., Sch. 894  
**Lumber**—June 3, 20,000 bd. ft. yellow pine boards, 9000 bm. ft. yellow pine joists, 42,500 bm. ft. yellow pine dimension lumber, 10,000 bm. ft. Grade D finish yellow pine lumber, 5000 bm. ft. factory finish cypress lumber, Quantico, Va., Sch. 902

## INDUSTRIAL NEWS

### Improved Shot-Gun Powder

The Smokeless Powder Department of E. I. du Pont de Nemours & Company, Inc., Wilmington, Del., recently announced a new development in shot-gun powder, known as Du Pont MX. Outstanding features of the new powder, according to the company, are: Ballistic stability remains unimpaired even under severe storage conditions; it is non-hygroscopic; its physical qualities are such as to insure uniformity in loading, and it is remarkably clean-burning, leaving no unburned grains to clog or interfere with the action of the gun.

### Birmingham Accounting Firm

The firm of Andrews, Harden & Company, with offices in the Jackson Building, Birmingham, Ala., has been formed by a partnership between John F. Andrews and James A. Harden, according to an announcement by Mr. Andrews, certified public accountant and formerly assistant manager of the Kaul Lumber Co. The new firm will engage in the general practice of accounting and income tax services.

### Porcelain-Enamel Covered Dwelling

An all-metal dwelling will be constructed at the Century of Progress, Chicago, by the Ferro Enamel Corporation of Cleveland, Ohio, and the American Rolling Mill Company, Middletown, Ohio. The demonstration house will be covered entirely with porcelain enamel fused on Armco Ingot Iron, thus eliminating the necessity for painting and making it possible to remove with a garden hose any dirt that may collect. The company builders describe the proposed house as "fire-safe, vermin-proof, and well insulated against heat and cold." The experiment is designed not only to demonstrate the possibility of a porcelain enamel exterior, but to illustrate the adaptability of sheet metal for dwelling construction.

### Fay-Egan District Offices Moved

J. A. Fay & Egan Company, manufacturers of woodworking machinery, Cincinnati, Ohio, announce the removal of their New York office to newer and better accommodations in the Nelson Tower Building, 205 West 34th street, room 3001. H. C. Whitlock is regional manager. The company also announce that their office in Boston, Mass., has been re-located at 265 Purchase street.

### Engages in General Contracting

E. B. Morgan, for 10 years engineer and estimator with Brown-Harry Co., Gastonia, N. C., recently opened offices at 323 East Main street, Gastonia, for conducting a general contracting business.

### Deweese Central Station Manager

H. K. Dewees, formerly district manager of the Dallas territory for Edison General Electric Appliance Company, Inc., Cleveland, Ohio, has been made central station manager for the company, in charge of public utility sales of General Electric-Hotpoint ranges.

### Hope's Windows, Inc.

Henry Hope & Sons, Inc., New York, and the International Casement Co., Inc., Jamestown, N. Y., have merged under the new title of Hope's Windows, Inc., with headquarters at Jamestown. The importation of Hope's casements and hardware from England; the manufacture of Hope's leadwork and bronze work at Stratford, Conn., and the manufacture of all International products at Jamestown, will be continued. Products of both companies will be marketed by one sales organization.

### In Larger Offices

E. C. Sherwood, dealer in steel rails and track materials and contractors' equipment, located for many years at 50 Church street, New York, has moved to larger offices at 7 Dey street, New York.

### \$515,000 Road and Bridge Awards

Oklahoma City, Okla.—Contracts have been awarded by the Oklahoma State Highway Commission on 18 road and bridge projects, involving an aggregate cost of \$515,464. Proposed work covers 8 projects embracing a total of 39.934 miles of grade and drainage construction to cost \$133,778; 3 projects covering a total of 15.758 miles of concrete paving to cost \$270,337, and 7 projects covering 22 bridges to cost \$106,398 in the aggregate.



## Would Add \$100,000,000 to Farm Income

The cotton cooperative associations, enrolling 208,000 growers, will vigorously support the attempt being made by Senator Shipstead of Minnesota to tax imports of vegetable and animal oils and oil-bearing materials, it is announced from headquarters of the American Cotton Cooperative Association, New Orleans. It was estimated that the proposed tariff would add \$100,000,000 to the annual income of American farmers producing cottonseed, peanuts, beef, hogs, soy beans and dairy products.

Senator Shipstead advocates a tax of one cent per pound on a selected list of oil-bearing imported raw materials, and two cents a pound on a selected list of such oils. The list includes copra and coconut oil from the Philippines.

## Galveston Cotton Shipments

Shipments of cotton through the port of Galveston for the 1931-1932 season went above the 2,000,000 bale mark during the week ending May 6. On that day total shipments stood at 2,022,163 bales, of which 1,926,670 bales went to foreign countries, reports the Galveston Shippers Digest from figures issued by the Cotton Exchange and Board of Trade. The total shipment is above the entire season of last year, with 12 weeks remaining in this cotton year. It is considered certain that foreign exports will pass the 2,000,000 bale mark before August 1. Also, it is stated that coastwise shipments are ahead of the 1930-1931 season.

## Steel Roofs for 500 Box Cars

Roanoke, Va.—Arrangements are being made by the Norfolk and Western Railway Company, Clyde Cocke, purchasing agent, for applying steel roofs to 500 box cars of 40-ton capacity. It is the intention of the company to spread the work over a long period, purchasing necessary material from time to time.

## Jacksonville Firm Plans Production

Jacksonville, Fla.—Arrangements have been consummated by the American Eisgas Corporation of Jacksonville, and the Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J., whereby the latter will manufacture Eisgas machines and parts, including home gas generators, railway freight car refrigeration and passenger car air-conditioning equipment. The machines are to be assembled and marketed in Jacksonville, according

to H. H. Buckman of Buckman & Company, Jacksonville, consulting engineers and managers for American Eisgas Corporation. The first machines are expected to be delivered within 60 days. Officers of American Eisgas Corporation include: John Wilkes Love, president; M. D. Griffing, vice-president; C. M. Weller, secretary-treasurer. The board of directors is composed of the officers and George Pritchard.

## Ford Plant Employs 800 Men

Houston, Tex.—With 200 men already employed for preliminary work, F. S. Reinhardt, manager of the Ford Motor Plant here, announces the employment of 800 additional men. New Ford cars, both fours and eights, as well as commercial cars, will be assembled at the plant, which will have an initial production of 100 cars daily. Within a half-month, it is anticipated the production will have been stepped up to 150 cars daily.

## \$750,000 Bonds for Relief of Unemployment

New Orleans, La.—By a vote of almost 10 to 1, taxpayers of New Orleans approved a bond issue of \$750,000 for relief of unemployment. Following a tabulation of the vote by the commission council, the New Orleans Welfare Committee announced the opening of six district stations for interviewing applicants for relief. Under terms of an amended ordinance, the expenditure of the fund shall not exceed \$60,000 a month. An advisory committee to supervise expenditures is composed of B. C. Casanas, Ben Beekman, Edgar Stern, S. M. Smallpage, Leon Heymann and A. G. Newmeyer. James Dempsey, president of the Central Trades and Labor Council, has been appointed by Mayor T. Semmes Walmsley to membership on the general welfare committee.

## \$4,000,000 Maryland Bond Sale

Annapolis, Md.—At a meeting of the Board of Public Works on June 8, bids will be opened for the purchase of \$1,000,000 Maryland bridge bonds, according to J. O. McCusker, chief deputy comptroller of the State Treasury Department, and at another meeting of the Board on August 10, bids will be opened for the purchase of \$3,076,000 bonds of the General Construction Loan of 1931. The bridge bonds will be issued June 15 and the General Construction Loan bonds August 15. There is also an issue of \$375,000 Ocean City Inlet bonds authorized for issue August 15, but the Board has made no arrangements for the sale of this issue.

## Improvement in Hardware Trade

Hardware business in West Tennessee and Arkansas is 20 per cent ahead of this time last year, stated Leslie M. Stratton, president Stratton-Warren Hardware Company, Memphis, in addressing the recent Dixie Hardware-Implement Convention and Exposition. "Business conditions today have plenty of parallels in history. We will emerge stronger than we have ever been before. I believe this to be particularly true of the hardware business, and that the field of endeavor of the hardware retailer is going to be enlarged rather than lessened as a result of this depression. Many lines of merchandise that have been moved through devious channels will now go to the consumer through the hardware trade."

Mr. Stratton, who is a prominent jobber and manufacturer and past president of the Southern Hardware Jobbers' Association, in predicting an early return of prosperity to the hardware trade asserted that "the distribution of hardware in the years to come will continue to flow through the established channels of the jobber and retailer, because the chain store ideas cannot be successfully applied to the hardware field." Being a jobber, manufacturer and owner of a chain of grocery stores in the Mid-South, Mr. Stratton's opinion may be taken to represent the composite views of all channels of distribution.

## Model Food Market Planned

St. Louis, Mo.—One of the outstanding features at the thirty-fifth annual convention of the National Association of Retail Grocers to be held in St. Louis in June, will be a model food market to contain more than 2000 varieties of groceries and other foodstuffs. The model store will be 72 by 40 feet, its purpose being to show the latest and most economical and scientific merchandising methods. The floor plan will be adaptable to any store, it is said, regardless of size or interior shape. The most modern refrigeration, lighting, merchandising and display will be emphasized.

## \$372,000 Federal Building Bid

Meridian, Miss.—Low bid was submitted to the Treasury Department, Washington, Jas. A. Wetmore, Acting Supervising Architect, by Ralph Sollitt & Sons Construction Co., South Bend, Ind., for the construction of a United States post office building here. This company's bid was \$372,000, using marble for the exterior, and \$314,000, using limestone. Krouse & Fort, Meridian, are the architects.

## COTTON CONTENT PAPER ANNOUNCED

Champion Fibre Company Introduces  
New Product Following Completion of  
\$1,500,000 Paper Mill Improvements

The announcement of the Champion Fibre Company, Canton, N. C., of a new use for cotton, foretelling the consumption of many thousands of pounds a year in the manufacture of a high grade bond paper, carries added significance as coming so soon after the company's announcement of the completion of improvements in connection with its paper plant, involving an outlay of \$1,500,000.

The manufacture of this new paper, in which fibres of cotton have been combined with Southern wood fibres, is said to be the first time in the history of paper making that a sheet utilizing cotton, suitable and inexpensive enough for volume usage and consisting entirely of Southern fibres, has been perfected. Of 25 per cent cotton content, the new paper utilizes fibres of short length, which are difficult for cotton manufacturers to utilize. For this reason paper making and textile manufacturing are non-competitive, it is said, in the use of cotton fibres. On the contrary, it is believed the activities of each will supplement the other, working to the advantage of the cotton grower by widening the cotton market.

In connection with the new product, the announcement states that it raises the making of fine papers in the South to a new and stronger position. The paper industry in the past has depended on fibres of the forest for raw materials, with 15 to 20 years required to obtain a suitable timber crop even under favorable circumstances. With the development of a manufacturing process to use cotton as a raw material an annual crop is available, it is pointed out.

### Machinery Order Booked

Birmingham, Ala.—From the fact that at least one Birmingham firm has been awarded a contract by the Government for machinery on the Madden Dam, Panama Canal Zone, and other Birmingham industries anticipate contracts on the same project, more than ordinary interest has been aroused among the iron and steel, foundry and fabricating shops in the district. Contract for machinery was awarded to the Goslin-Birmingham Manufacturing Company, calling for more than 840 tons of iron and steel to be fabricated and delivered within seven or eight months. This order is encouraging, as it follows orders recently received from New Mexico. The plant in

East Birmingham has completed eight cotton compressors, soon to be shipped. The company is also completing machinery for Brazil shipment, and it is announced that operations will be resumed in the soil pipe department, for which from 50 to 75 men have been called.

### Low Bid on Cotton Twine

Washington, D. C.—Low bid to supply the Postoffice Department with 1,600,000 pounds of cotton twine was submitted by the Granite Falls Manufacturing Company, Granite Falls, N. C., at \$144,000. This price was based on lots of 800 yards to the pound. On the basis of 840 yards to the pound, the Granite Falls company submitted a bid of \$146,000. Bidding on a similar quantity of jute, the Ludlow Sales Company, Ludlow, Mass., was low at \$134,400 for 730 yards to the pound, and on 800 yards to the pound the same company was low at \$142,400. This purchase, to involve about \$300,000, is for supply after the new fiscal year begins July 1. It is understood the purchase of cotton will be favored as against jute if the difference in cost is not too great.

Harvard Terrace Development Corporation, Washington, D. C., filed application for permits to erect 32 dwellings in Walbridge place, northwest, and Lamont street, northwest, at a cost of \$155,000.

### Rivers and Harbors Congress

President Frank R. Reid of the National Rivers and Harbors Congress, Washington, has called a special session of the Congress to convene in Chicago on June 13 and 14. The purpose of the meeting is to formulate plans to resist organized efforts to "impair or cause the abandonment of the entire national system of waterways." Resolutions will be prepared and provision made for the appointment of committees to appear before the Resolutions committees of the Republican and Democratic national conventions, and other business transacted. The governor of each state will be requested to appoint representatives to attend as official delegates, each state being entitled to a delegation equal to the number of members from that state in the Congress of the United States. Mayors of cities and executive heads of municipalities likewise are to be asked to appoint representatives, as well as presidents of agricultural, commercial, industrial and waterways associations.

### \$750,000 New Orleans Bonds

New Orleans, La.—Bids will be opened May 23 by the Board of Liquidation, City Debt, for the purchase of \$750,000 City of New Orleans Serial Gold Bonds, Series of 1932. The bonds will be dated June 1, 1932, and will bear an interest rate of 5 per cent.

## Handling Federal Trucks



The name of the M. H. Elder Culvert & Machinery Company, Atlanta, was recently changed to M. H. Elder Truck & Equipment Company, change of name having no effect on the financial status of the company. This organization was recently appointed exclusive distributor in Georgia of Federal motor trucks, made by the Federal Motor Truck Company, Detroit. The illustration shows the front facade of the company's new building in Atlanta, at 594 West Peachtree street, N. W., with Mr. Elder standing at the front of a Federal truck.



## Fleisher Engineering & Construction Co.



TELEPHONE  
SUPERIOR 8924

CHICAGO

WRIGLEY  
BUILDING

April 20, 1932.

Manufacturers' Record,  
Baltimore,  
Maryland.

Gentlemen:

We are certainly interested in your recent letter wherein you make known the fact that you are considering the advisability of devoting a section of your publication to the welfare of the construction industry by permitting both general and sub-contractors to secure small blocks of space in which they will declare their desire of establishing the FAIR DEALING POLICY in connection with the bidding of projects. This is a remarkable idea and you can be sure that as soon as you have something definite to offer us, that we will apply for space at once.

We will also encourage other general as well as sub-contractors to apply for space, which we are sure will eventually result in the weeding out of irresponsible organizations who are not willing to deal on a fair and square basis.

You can be sure of our co-operation in every way possible to make the section of your issue devoted to this worthy cause a success.

Yours very truly,

FLEISHER ENGINEERING & CONSTRUCTION CO.

By

BFB:ER

## FINANCIAL NEWS

### Bond Issues Proposed

Ga., Hogansville—City votes May 25 on \$25,000 school building bonds.

Md., Annapolis—State Bd. of Public Works, Wm. S. Gordy, Jr., State Comptroller, offer \$3,076,000 General Construction Loan of 1931 on Aug. 15; arrangements not made for sale of \$375,000 Ocean City Inlet bonds authorized to be issued Aug. 15.

Okla., Shawnee—City received no bids for \$200,000 waterworks bonds.

Tenn., Lawrenceburg—City voted \$40,000 bonds for providing plant for Salant & Salant, Inc. (Shirt Mfrs.).

Tex., Blackwell—Blackwell Independent School Dist. may hold election on \$25,000 bonds.

Tex., Gonzales—Gonzales County Road Dist. No. 1 votes May 26 on \$350,000 bonds: \$250,000, state highway construction; \$100,000, lateral road.

Tex., Lindale—Lindale Consolidated Independent School Dist. voted \$45,000 school building bonds.

### Bond Issues Sold

Ala., Bessemer—City, J. M. Scott, City Clk., sold \$85,000, 6% F. & A. bonds to Marx & Co., Birmingham.

Ala., Montgomery—City, reported, sold \$1,350,000 9-months certificates of indebtedness to Marx & Co., Birmingham.

Md., Cumberland—Allegany County Com. Mrs., Thomas P. Richards, Clk., Court House, sold \$800,000, 4½%, \$1000 denom. road bonds to National City Co., New York, at 100.8299.

Mo., Independence—Jackson County sold \$1,000,000, 4½% semi-annual road and bridge bonds to syndicate composed of Continental Illinois Co., Chicago; Boatmens National Co., St. Louis, Mo.; First Detroit Co., Detroit, Mich., and Commerce Trust Co., Kansas City, Mo., at 100.93.

N. C., Pittsboro—Chatham County, reported, sold \$15,000, 6% tax anticipation notes to Bank of Pittsboro.

N. C., Wilson—Wilson County, reported, sold \$140,783, 6% refunding bonds to Branch Banking & Trust Co., Wilson.

Tex., New Braunfels—Comal County, Richard A. Ludwig, Clk., advises sold \$21,000 warrants to local individuals at par plus interest; balance of \$40,000 warrants will be issued when State Highways 46 and 66 will be improved.

### New Financial Corporations

Ark., Fort Smith—City National Co., capital \$35,000, chartered; Lazare Baker, Pierce Apts.

Ark., Foreman—Foreman Banking Co., capital \$20,000, chartered; H. A. Hawkins, F. K. Davis.

Miss., Meridian—Municipal Securities Co. chartered; Hugh C. Williams, John R. Nunnery.

N. C., Elizabeth City—P. H. Williams, former president closed Savings Bank & Trust Co., plans organizing another bank to take over one closed.

S. C., Blackville—Bank of Blackville, capital \$25,000, formed with C. G. Fuller, Pres., Barnwell.

Bank of Yazoo City, H. M. Love, Pres., Yazoo City, Miss., reopening.

Bank of Yanceyville, R. L. Mitchell, Pres., Yanceyville, N. C., plans reopening.

Bank of Lexington, G. W. Mountcastle, Chmn. of Bd., Lexington, N. C., and Commercial & Savings Bank, J. H. Greer, Pres., Lexington, plan merging.

Bank of Matoaka, D. H. Barger, Pres., Matoaka, W. Va., and Matoaka National Bank, Newton T. Roberts, Pres., Matoaka, merged under name of former institution.

Bluefield National Bank, D. E. French, Pres., Bluefield, W. Va., and Flat Top National Bank, L. E. Tierney, Jr., Pres., Bluefield, merged as Flat Top National Bank.

Central Trust Co., W. L. Reno, Pres., Owensboro, Ky., plans reorganizing.

First National Bank, Mangum, Okla., absorbed First National Bank, Brinkman; West Holland, Liq. Agt., Brinkman.

First & Peoples Bank, Russell, Ky., succeeded First National Bank of Russell; Jacob Fisher, Russell, Liq. Agt.

First National Bank, Harlingen, Tex., reopened with W. H. Hall, Pres.

National Bank, Burlington, N. C., reorganized with R. H. Whitehead as president.

People's Bank, J. A. Hinkle, Pres., Stephens City, Va., plans reorganizing.

Pikesville National Bank, Harry M. Benzing, Pres., Pikesville, Md., plans reopening.

United Bank & Trust Co., J. W. Fry, Chm. of Bd., Greensboro, plans reopening; has units in Burlington, Reidsville and Sanford, N. C.

### Financial Notes

#### Westinghouse Makes Quarterly Report

Quarterly statements regarding the financial condition of the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., and proprietary manufacturing companies, show that the company is in good shape; that some significant items indicate marked improvement, and that management economies are bringing about readjustment made necessary by present business conditions. While gross earnings, for instance, dropped about 28 per cent from the total of the first three months of 1931, net loss is 54 per cent less than for that period. Improvement is noted in unfilled orders, which were \$36,598,246 on March 31, 1931, and \$37,999,565 on March 31, 1932, while inventory shows a favorable reduction, having been cut from \$43,299,442 on March 31, 1931, to \$37,511,827 on March 31, 1932. Orders entered the first quarter of 1931 amounted to \$30,100,410, compared with \$20,388,658 for the corresponding period this year, while net loss of the combined companies in the first quarter this year was \$1,320,148, or \$1,565,797 less than the loss for the corresponding period last year, despite the fact that net sales billed or gross earnings dropped from \$28,476,175 to \$20,377,948. This comparison is regarded as substantial evidence that Westinghouse is adjusting itself to new conditions by means of economic management and other efficiency measures. Dividend checks were sent to 54,158 preferred and common stockholders, as against 49,332 a year ago.

#### Louisville Gas and Electric

Gross earnings of the Louisville Gas and Electric Company, Louisville, Ky., for the year ended December 31, 1931, amounted to \$10,714,010, compared with \$10,566,386 for 1930; total operating expenses and taxes, \$4,798,222, compared with \$5,153,392, and net earnings \$5,915,788, compared with \$5,412,994. The company paid preferred dividends in 1931 to the amount of \$1,367,857, compared with \$1,320,549 in 1930, and common dividends of \$1,577,283, compared with \$1,577,225 in 1930. Balance carried to surplus was \$796,352 at the end of 1931, compared with \$546,698 in 1930.

#### Standard Gas and Electric Report

Consolidated surplus earnings of the Standard Gas and Electric Company, Chicago, and subsidiary and affiliated companies, amounted to \$8,706,669 for 1931 after all operating expenses, depreciation in the amount of \$14,728,581, interest charges and dividends, or the equivalent of \$4.02 a share on 2,162,607 shares of common stock outstanding December 31, 1931, according to the company's annual report. This compares with a surplus of \$13,082,498 for 1930, or \$6.04 a share on the same number of shares of common stock outstanding at the end of that year. Gross earnings of the company for 1931 amounted to \$159,070,293, compared with \$172,460,872 for 1930; total operating expenses, \$85,038,832, compared with \$96,334,333, and net income \$34,707,048, compared with \$38,052,933.

Public utility companies in the Standard Gas and Electric Company system serve a total of 1662 communities having a combined estimated population of 6,000,000. As of December 31, 1931, a total of 1,622,725 customers of all classes was served, an increase during the year of 7168. Capital expenditures of subsidiary and affiliated public utility companies for additions, renewals and replacements in 1931 totaled \$30,752,892. After deductions for retirements of property and sale of certain ice properties, net construction expenditures, including property acquisitions, amounted to \$15,899,899. On December 31, 1931, the aggregate capacity of generating plants of the system was 1,580,802 kilowatts. Capital expenditures budget for 1932 totals \$25,012,000, of which \$21,458,000 is for new projects, while \$3,554,000 is for completion of work started prior to January 1, 1932. The budget calls for an expenditure of \$8,225,000 for extensions to serve new business.

**Insurance Developments.**—The May number of The Annals issued by the American Academy of Political and Social Science, Philadelphia, records the outstanding changes in the past five years in the leading types of insurance as presented by leading insurance authorities in the different fields. Among subjects treated are: Investment nature of life insurance, conservation and prevention of loss, developments in the fields of property and casualty insurance and educational trends in insurance.

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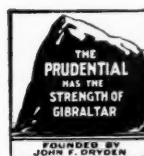
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## Birmingham's Stake in Steel Development

Under the heading, "Buy Birmingham! Consistently, Unhesitatingly," the Birmingham News reminds its readers that:

"Whoever considers the broader aspects of real estate and business investment in this season of economic uncertainty cannot ignore the importance of steel in the development of this hemisphere. Nor can any Birmingham citizen, be he common laborer or corporation captain, afford to blink the tremendous part Alabama steel is destined to play in the physical evolution of this continent. Those dwelling here who can see beyond the tips of their noses, and who have not had the joyous flow of their spirits damped by a mere 24-month pause in normal industrial occupations, are beginning to take the long view of the situation. \* \* \*

"Birmingham is one of the lustiest children of the Steel Age. Its marvelous resources that have been scarcely tapped; its strategic position within 300 miles of tide water; its equable climate permitting continuous production; the propinquity of river navigation the year around; its nearness to Central and South American territory whose people are hardly conscious of the dawn of the Steel Age; its admirable location for supplying the Asiatic trade, to say nothing of the west coastal trade of the United States—all these facts are known of all men and need no repetition here. But it would be a rather tragic thing if local investors and capitalists, whether their investments be measured in hundreds or in millions of dollars, should for an instant forget the potential wealth lying here about them, waiting only the dynamic energies to be unloosed with the return of the United States to normal conditions. \* \* \*

"When business resumes," writes Henry Dreyfuss an eminent authority on industrial designs and stage settings, 'it will show no interruption in the Steel Age which began two decades ago. Cities here and abroad will see hundreds of enormous new buildings, with skins and bones of steel, and they will be beautiful. This movement will spread to homes and to public and semi-public buildings—museums, libraries, hospitals, theaters, sports stadia, churches.'

"In his farewell speech in retiring from the presidency of the United States Steel Corporation, Mr. James A. Farrell said an old-fashioned and warming thing: 'Remember,' said he to the directors, 'the sun is always shining behind the clouds.' No compact group of world citizens needs more to remember this than the population of the Birmingham district."

## \$800,000 County Road Bonds

Cumberland, Md.—Allegany County road bonds in the amount of \$800,000 have been sold to the National City Company, New York, at 100.8299. These bonds, bearing an interest rate of 4¾ per cent, are direct obligations of the county. Proceeds will be used to complete 21 miles of concrete on the Old

Town Road, which will offer a new route to Washington and the South. The road crosses the Potomac River into West Virginia at Paw Paw.

## \$2,725,000 Texas Road Work

Austin, Tex.—In a two-day session, May 26 and May 27, bids will be opened by the State Highway Commission for the construction of roads and bridges, the former to include 65 miles of concrete. Projects call for construction in 28 counties, estimated to cost \$2,725,000.

## 60 Airships for United Lines

Dallas, Tex.—Orders have been placed by the United Airlines for the manufacture of 60 Boeing twin-motor, ten-passenger airships for use in and out of the Dallas port, according to William H. Philp, district traffic manager. The new ships, which will require several months to build, are said to be duplicate models of the new United States bombers with modifications for passenger accommodations and increased speed. They will have a cruising speed of 165 miles an hour. United Airlines, with a new hangar at Love Field, operate a day and night passenger, mail and express service.

## \$847,000 Hospital Contract

Contract to erect a new general hospital building at City Hospitals, Baltimore, for the city of Baltimore, has been awarded by the Board of Awards to J. Henry Miller, Inc., Baltimore, at \$847,700. Palmer & Landin are the architects, and Van Rensselaer Saxe, mechanical engineer, both of Baltimore. Construction will be under the supervision of the Bureau of Buildings, William A.

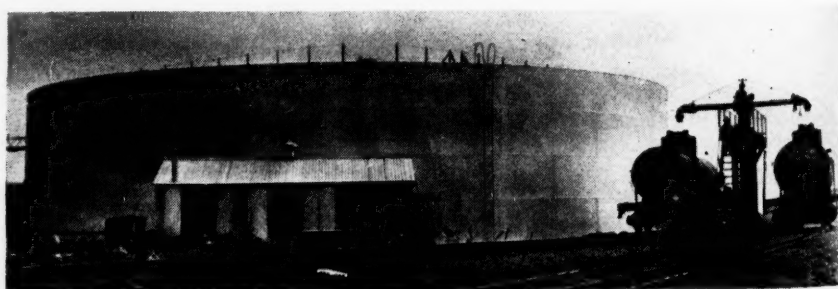
Parr, engineer. An allotment of \$1,300,000 was set aside by the Public Improvement Commission for the construction of this building. As the low bid to erect the structure was considerably less than the allotment, it is thought there will be available about \$450,000, with which the Supervisors of City Charities may erect a tuberculosis hospital and an addition to Ward A, the present general hospital which will be used as a hospital for chronic patients, and to construct a tunnel connecting it with the new hospital. The new structure will complete a building program of the Supervisors of City Charities out of a \$2,500,000 loan and \$250,000 transferred to them from the Sydenham Hospital portion of a previous public building loan. The building will have 410 beds, of which 96 will be in the maternity ward and 52 in the children's ward.

## \$1,000,000 Veterans Hospital

Fayetteville, Ark.—Bids will be opened June 21 by the Veterans Administration, Washington, for the construction of a Veterans Administration Hospital here and utilities, including roads, walks, grading and drainage, etc. The project is estimated to cost \$1,000,000.

Every managing director must give constant thought to the strengthening of the weakest part of his organization. If he has a factory, he must look for the bottle-neck, the point of congestion. It slows down the whole factory. If he has a shop, he must pay attention to the shop assistants who are losing sales and driving away his customers. A managing director must often make changes and improvements, building up his organization and equipment wherever it is weak.—*The Efficiency Magazine, London.*

## For Storing Molasses at Baltimore



The Western Maryland Railway Company recently completed at its Port Covington (Baltimore) terminal, extensive bulk-molasses handling and storage facilities. Storage is provided for 2,000,000 gallons of molasses, and a powerful pumping station has been built connecting the storage tank with the dock. The project includes also loading racks to handle a number of tank cars at one time with facility and dispatch. The project was undertaken for the Molasses Products Corporation, which specializes in molasses for animal feed trade.





# PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close May 24, 1932.

TREASURY DEPARTMENT, office of the supervising architect, Washington, D. C., May 13, 1932.—Notice is hereby given that the time for opening bids for furnishing all labor and materials and performing all work for the construction (except elevators, truck lift, dumbwaiter and p. o. station loading platform door) of the United States post office department building at Washington, D. C., is hereby postponed from 3 p. m. May 23, 1932, until 3 p. m. May 24, 1932. JAS. A. WETMORE, Acting Supervising Architect.

Bids close June 7, 1932.

TREASURY DEPARTMENT, office of the supervising architect, Washington, D. C., May 3, 1932.—SEALED BIDS, in duplicate, subject to the conditions contained herein, will be publicly opened in this office at 3 p. m., June 7, 1932, for furnishing all labor and materials and performing all work for the construction complete of the U. S. post office at Glen Cove, Long Island, New York. The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding three (3) sets, may be obtained at this office, in the discretion of the supervising architect, by any satisfactory general contractor, and provided a deposit of \$15.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of commerce or other organizations who will guarantee to make them available for any subcontractor or material firm interested and to quantify surveyors; provided a deposit of \$15.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect.

Bids close June 21, 1932.

Sealed Bids, in triplicate, subject to the conditions contained herein, will be received by the Veterans Administration, Room 764, Arlington Building, Washington, D. C., until 2:30 P. M., June 21, 1932, and then publicly opened for furnishing all labor and materials and performing all work required for constructing and finishing complete at Veterans Administration Hospital, Fayetteville, Arkansas, Buildings and Utilities. This work will include excavating, roads, walks, grading and drainage, reinforced concrete, hollow tile, brickwork, cut stone, architectural terra cotta, slate stair treads, marble work, terrazzo, floor and wall tile, rubber tile, compressed asphalt tile and linoleum floors, iron work, structural steel construction, flagpole, steel sash, steel stairs, steel shelving, cabinets and partitions, shingle tile, metal and built-up roofing, lighting conductors, skylights, roof ventilators, metal lathing, plastering, sound deadening, carpentry, metal weatherstrips, insect screens, platform scales, dumbwaiter, painting, glazing, hardware, plumbing, steel water tank and tower, refrigerating and ice making plant, radial brick chimney, heating and ventilating, electrical work, electric elevators and outside distribution systems, and such other items as shown or specified. Separate Bids will be received for (a) General Construction, including Radial Brick Chimney; (b) Plumbing, Heating, Electrical Work; (c) Electric Elevators; (d) Steel Water Tank and Tower; and (e) Refrigerating and Ice Making Plant; all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract and in making awards, the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Administrator, drawings and specifications may be obtained upon application to the Construction Service, Room 764, Arlington Building, Washington, D. C. While no deposit will be necessary, return of the drawings and specifications within ten days after date of opening bids will be required. In case no bid is to be submitted, the return of plans and specifications, as soon as this fact has been determined and before the date for opening bids, is requested. Compliance with the requirement and with the request indicated will be considered in connection with future applications for drawings and specifications. GEORGE E. IJAMS, Assistant Administrator.

## GENERAL INFORMATION About Proposal Advertising in Manufacturers Record

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Published every business day, gives information about the industrial, commercial and financial activities of the South and Southwest.

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The rate is the same for both publications—35 cents a line each insertion.

tions, as soon as this fact has been determined and before the date for opening bids, is requested. Compliance with the requirement and with the request indicated will be considered in connection with future applications for drawings and specifications. GEORGE E. IJAMS, Assistant Administrator.

Bids close May 24, 1932.

## Bridge and Jetty Construction DEPARTMENT OF PUBLIC WORKS STATE OF MARYLAND STATE ROADS COMMISSION

### NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for bridge and jetty construction as follows:

Anne Arundel County, Contract No. AA-121-1-87—Concrete bridge floor and work on approaches for single 200 foot span, 27 foot roadway, bridge over the Patuxent River on the road from Upper Marlboro to Mt. Zion, known as Hill's Bridge

Frederick County, Contract No. F-159-1-57—Concrete bridge floor and surfacing on approaches for double 108 foot span, 27 foot roadway, bridge over the Monocacy River on the road from Rocky Ridge to Detour, known as Miller's Bridge

Worcester County, Contract No. Wo-120-1019—Construction of two jetties at Ocean City, one at Somerset Street and one at North Division Street

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 24th day of May, 1932, at which time and place they will be publicly opened and read. PREQUALIFICATION OF BIDDERS REQUIRED.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, for each separate project, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check, payable to the State Roads Commission of Maryland, as required by Sec. 6, Chapter 539, Acts of 1931, of the amount as set forth in the proposal form.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.  
BY ORDER of the State Roads Commission this 10th day of May, 1932.

G. CLINTON UHL, Chairman.  
L. H. STEUART, Secretary.

Bids close June 1, 1932.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 14, 1932.—Notice is hereby given that the time for opening bids for furnishing all labor and materials and performing all work for the construction (except elevators) of the U. S. Department of Justice Building at Washington, D. C., is hereby postponed from 3 p. m., May 31, 1932, until 3 p. m., June 1, 1932. JAS. A. WETMORE, Acting Supervising Architect.

Bids close June 2, 1932.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 2, 1932.—SEALED BIDS, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p. m., June 2, 1932, for furnishing all labor and materials and performing all work for the construction of the U. S. post office, etc., at Palm Beach, Fla. The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931. Public No. 798). Drawings and specifications, not exceeding three sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of \$25.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chamber of commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested, and to quantify surveyors, provided a deposit of \$25.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 24, 1932.

## Maryland Highway Work

### DEPARTMENT OF PUBLIC WORKS STATE OF MARYLAND STATE ROADS COMMISSION

### NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for three sections of State Highway as follows:

Montgomery County, Contract No. M-214-35—One section of State Highway along Saratoga Avenue and approaches thereto from Chestnut Avenue to Sunnyside Road in North Takoma Park, a distance of 0.67 mile (Concrete)

Queen Anne's County, Contract No. Q-82-22—One section of State Highway along the Unicorn Mills Road from the Millington-Sudlersville Road toward Crumpton for a distance of 1.19 miles (Concrete Roadway and Slag Shoulders)

Washington County, Contract No. W-92-64—Federal Aid Project No. 242—One section of State Highway from Cavetown toward Boonsboro for a distance of 1.99 miles (Concrete)

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 24th day of May, 1932, at which time and place they will be publicly opened and read. PREQUALIFICATION OF BIDDERS REQUIRED.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, for each separate project, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check, payable to the State Roads Commission of Maryland, as required by Sec. 6, Chapter 539, Acts of 1931, of the amount as set forth in the proposal form.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.  
BY ORDER of the State Roads Commission this 10th day of May, 1932.

G. CLINTON UHL, Chairman.  
L. H. STEUART, Secretary.

Bids close June 3, 1932.

**TREASURY DEPARTMENT.** Office of the Supervising Architect, Washington, D. C., May 6, 1932.—**SEALED BIDS**, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p. m., June 3, 1932, for furnishing all labor and materials and performing all work for the construction of the U. S. post office, etc., at Cape Charles, Va. The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding three sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of \$15.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of Commerce or other organizations who will guarantee to make them available for any subcontractor or material firm interested, and to quantity surveyors, provided a deposit of \$15.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 31, 1932.

**DEPARTMENT OF THE INTERIOR.** Washington.—Sealed proposals in duplicate will be received at the Department of Interior until 2 o'clock p. m., Tuesday, May 31, 1932, for furnishing all labor and materials for constructing at St. Elizabeth's Hospital, Washington, D. C., one male receiving building, and the moving, relocating, and remodeling of shops building and T. B. buildings Nos. 1, 2 and 3, including roads, retaining walls, walks, grading, and drainage. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cut stone work, granite, architectural terra cotta, marble work, floor and wall tile, terrazzo floors, linoleum floors, miscellaneous structural and ornamental metal work, steel sash, steel stairs, tile, metal, and built-up roofing, metal lathing, plastering, carpentry, laundry chutes, metal weather strips, insect screens, window shades, painting, glazing, hardware, plumbing, refrigerating, heating and ventilating, electrical work, electric elevators, and outside service connections. Separate bids will be received for electric elevators and refrigerating plant, as per bid form. Bids will

be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. Drawings and specifications may be obtained upon application to the Construction Service, Veterans' Administration, room 764 Arlington Building, Washington, D. C. While no deposit will be necessary, the return of the drawings within ten days after opening bids will be required. Special attention is invited to requirements of the Act of March 3, 1931, regarding rate of wages, set forth in the specifications. Time of performance will be considered an element in awarding the contract. The right is reserved to reject any or all bids, waive technical defects, accept one part and reject the other as the interests of the Government may require. Proposals must be securely enveloped, marked "Proposal for construction of male receiving building, St. Elizabeth's Hospital," and be addressed to the Secretary of Interior, Washington, D. C. JOS. M. DIXON, First Assistant Secretary.

## CLASSIFIED OPPORTUNITIES

### MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

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### INDUSTRIES WANTED

**WHEELING, W. VA.,** has ideal factory buildings available. Excellent rail and river location. Steel district. Co-operative assistance from legal non-profit organization. Write OHIO VALLEY INDUSTRIAL CORPORATION.

### INDUSTRIAL PLANTS

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260 Looms  
360 H.P. New Diesel Engine  
Brick Buildings  
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Exceedingly cheap—Good terms  
Low Taxes  
For further information write No. 9188, care Manufacturers Record, Baltimore, Md.

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**WAREHOUSE SPACE FOR RENT—**Side track available—cost directly in proportion to space used. HORACE K. HOUSTON, Box 2701, Memphis, Tennessee.

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**RATES:** 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to line. When the advertisement contains a number of long words proper allowance should be made.

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On special contract advertising bills are rendered monthly, covering space used each month, payable within ten days.

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### PATENT ATTORNEYS

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941 Munsey Building, Washington, D. C.  
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**IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited.** The undersigned provides a thoroughly organized service of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements, your identity covered and present position protected. Established twenty-two years. Send only name and address for details.

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Complete paving outfit, including Two—Cummer Asphalt Plants.  
Four—Rollers.  
One—Koehring Paver.  
Two—Small Mixers.  
One—Sand Drier.  
One—Ingersoll Rand Portable Compressor.  
Two—Farquhar Rollers, 100 h.p., 60 h.p.  
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One—3000 W. Kohler Light Plant.  
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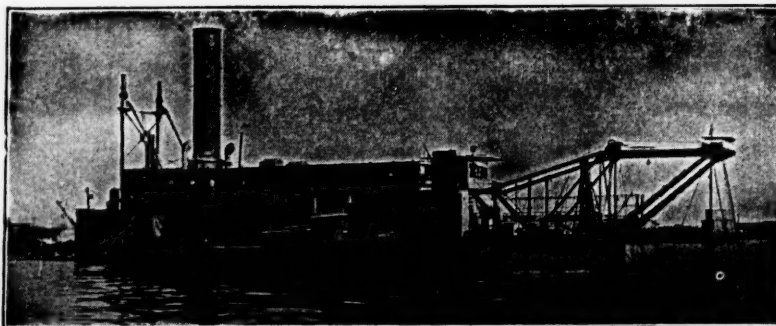
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Ernst & Ernst, New York, N. Y.

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Armstrong & Bro. Co., R. S., Atlanta, Ga.  
De Laval Steam Turbine Co., Trenton, N. J.  
General Electric Co., Schenectady, N. Y.  
Westinghouse Traction Brake Co., Wilmerding, Pa.

## AIR HEATERS.

Babcock & Wilcox Co., New York.

## APPRAISERS.

Main, Inc., Chas. T., Boston, Mass.

## ARCHITECTS.

Chase, Wm. J. J., Atlanta.  
Main, Inc., Chas. T., Boston, Mass.  
Milburn, Melster & Co., Washington, D. C.  
Moyer Co., Tilghman, Allentown, Pa.  
Preacher & Co., Inc., G. Lloyd, Atlanta.

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## ASPHALT.

Gulf Refining Co., Pittsburgh, Pa.

### —Filler.

American Limestone Co., Knoxville, Tenn.

### —Paving.

Barber Asphalt Co., Philadelphia, Pa.

## BALLAST (Railroad.)

American Limestone Co., Knoxville, Tenn.

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Baltimore Commercial Bank, Balto., Md.  
Baltimore Trust Co., Baltimore, Md.  
Bank of New York & Trust Co., New York City.  
First and Merchants National Bank, Richmond, Va.

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American Bridge Co., Pittsburgh, Pa.  
McClintic-Marshall Corp., Bethlehem, Pa.

## BARS (Steel, Rounds, Flats, Hexagon and Squares.)

Carnegie Steel Co., Pittsburgh, Pa.  
Gulf States Steel Co., Birmingham, Ala.  
Sweet's Steel Corp., Williamsport, Pa.  
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.  
Virginia Bridge & Iron Co., Roanoke, Va.  
Youngstown Sheet & Tube Co., Youngstown, Ohio.

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Chattanooga Boiler & Tank Co., Chattanooga, Tenn.  
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.  
Virginia Bridge & Iron Co., Roanoke, Va.

## BILLETS (Basic Open Hearth.)

Gulf States Steel Co., Birmingham, Ala.  
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

## BITUMINOUS ROAD MATERIAL.

Koppers Products Co., Pittsburgh, Pa.

## BLASTING POWDER and Accessories.

Du Pont de Nemours & Co., E. I., Wilmington, Del.

## BLINDS (Venetian and Awning.)

Wilson Corp., The J. G., New York.

## BLOCKS (Chain.)

Wright Mfg. Co., Bridgeport, Conn.

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Finnigan Co., Inc., J. J., Atlanta, Ga.

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Charleston Dry Dock & Machine Co., Charleston, S. C.  
Chattanooga Boiler & Tank Co., Chattanooga, Tenn.  
Ole Mfg. Co., R. D., Newnan, Ga.  
Hedges Walsh Weldner Co., Chattanooga, Tenn.  
Schodfield's Sons Co., J. S., Macon, Ga.  
Titusville Iron Works Co., Titusville, Pa.

### —(Oil.)

Babcock & Wilcox Co., New York.

### —(Used.)

Delta Equipment Co., Philadelphia, Pa.  
O'Brien Machinery Co., Philadelphia, Pa.

## BOILER SETTINGS.

Babcock & Wilcox Co., New York.  
Brooks-Fisher Co., Atlanta, Ga.

### —Tubes.

Babcock & Wilcox Co., New York.  
National Tube Co., Pittsburgh, Pa.

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Bethlehem Steel Co., Bethlehem, Pa.  
Progressive Mfg. Co., Torrington, Conn.  
Virginia Bridge & Iron Co., Roanoke, Va.

### —Bolts (Track.)

Sweet's Steel Co., Williamsport, Pa.

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## BORINGS (Core.)

Kennedy-Riegger Drilling Co., New York.  
Mott Core Drilling Co., Huntington, W. Va.  
Pennsylvania Drilling Co., Pittsburgh, Pa.  
Sprague & Henwood, Inc., Scranton, Pa.

## BOXES (Paper.)

Old Dominion Box Co., Lynchburg, Va.

## BRICK (Common Building.)

Friend & Co., Inc., Petersburg, Va.

### —(Vitrified, Paving.)

National Paving Brick Assn., Washington, D. C.

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Steele & Sons, J. C., Statesville, N. C.

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Earle Gear & Machine Co., Phila., Pa.

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Kerlow Steel Flooring Co., Jersey City, N. J.

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Atlantic Creosoting Co., Norfolk, Va.  
Ayer & Lord Tie Co., Chicago, Ill.  
Century Wood Preserving Co., Balto., Md.

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American Bridge Co., Pittsburgh, Pa.  
Belmont Iron Works, Philadelphia, Pa.  
Bristol Steel & Iron Works, Inc., Bristol, Va.  
McClintic-Marshall Corp., Bethlehem, Pa.  
Roanoke Iron & Bridge Wks., Roanoke, Va.  
Virginia Bridge & Iron Co., Roanoke, Va.

## BRONZE (Architectural.)

Heath Company, J. S., Waukegan, Ill.

## BUBBLERS.

Rundie-Spence Mfg. Co., Milwaukee, Wis.

## BUCKETS (Clam Shell.)

Owen Bucket Co., Cleveland, Ohio.  
Wellman Engr. Co., Cleveland, O.

### —(Coal.)

Owen Bucket Co., Cleveland, O.  
Wellman Engr. Co., Cleveland, O.

### —(Dredging, Excavating, Sewer, etc.)

Owen Bucket Co., Cleveland, Ohio.  
Wellman Engr. Co., Cleveland, O.

### —(Material Handling.)

Owen Bucket Co., Cleveland, O.  
Wellman Engr. Co., Cleveland, O.

### —(Ore Handling.)

Owen Bucket Co., Cleveland, Ohio.  
Wellman Engr. Co., Cleveland, O.

### —(Rehandling.)

Owen Bucket Co., Cleveland, O.  
Wellman Engr. Co., Cleveland, O.

### —(Sand and Gravel.)

Owen Bucket Co., Cleveland, O.  
Wellman Engr. Co., Cleveland, O.

## BUILDERS and Contractors.

Moyer Co., Tilghman, Allentown, Pa.  
White Engineering Corp., J. G., New York.

## BUILDING GRANITE

### (Finished.)

North Carolina Granite Corp., The, Mount Airy, N. C.

## BUILDINGS (Industrial.)

McClintic-Marshall Corp., Bethlehem, Pa.  
Virginia Bridge & Iron Co., Roanoke, Va.

## BULKHEADS.

Shore-Line Builders, Inc., Jacksonville, Fla.  
Snare Corp., Frederick, New York, N. Y.

## BURLAP.

Fulton Bag & Cotton Mills, Atlanta, Ga.

## BUSINESS METHODS.

Ernst & Ernst, New York, N. Y.

## CABLE.

American Cable Co., New York, N. Y.

### —(Elevator.)

American Steel & Wire Co., Chicago, Ill.  
Roebbing's Sons Co., John A., Trenton, N. J.

## CABLE AND WIRE (Electric.)

American Steel & Wire Co., Balto., Md.  
Roebbing's Sons Co., John A., Trenton, N. J.  
Western Electric Co., New York, N. Y.

## CALCIUM CHLORIDE.

Grasselli Chemical Co., Inc., Birmingham.

## CANNING MACHINERY.

Robins & Co., A. K., Baltimore, Md.

## CANVAS.

Fulton Bag & Cotton Mills, Atlanta, Ga.

## CARS (Dump, Industrial, Logging and Mine.)

Southern Iron & Equipment Co., Atlanta.

## CASSIONS (Foundations, Water Wells, etc.)

United Welding Co., Middletown, O.

## CASTINGS (Alloy.)

Cincinnati Steel Castings Co., Cincinnati, Ohio.

### —(Brass, Bronze and Aluminum.)

Richmond Foundry & Mfg. Co., Richmond, Va.

### —(Chilled Iron.)

Fuller Lehigh Co., Fullerton, Penna.

### —(Gray Iron.)

Fuller Lehigh Co., Fullerton, Penna.  
Giamorgan Pipe & Fdy. Co., Lynchburg, Va.  
Jefferson Foundry Co., Birmingham, Ala.  
Richmond Foundry & Mfg. Co., Richmond, Va.  
Salem Fdry. & Mch. Wks., Salem, Va.  
Schodfield's Sons Co., J. S., Macon, Ga.  
U. S. Pipe & Foundry Co., Burlington, N. J.

### —(Semi-Steel.)

Jefferson Foundry Co., Birmingham, Ala.  
Salem Fdry. & Mch. Wks., Salem, Va.

### —(Steel.)

Cincinnati Steel Castings Co., Cincinnati, Ohio.  
Crucible Steel Casting Co., Lansdowne, Delaware Co., Pa.  
Lunkenheimer Co., Cincinnati, Ohio.

## CEMENT (Portland.)

Alpha Portland Cement Corp., Birmingham, Ala.

## CHAIRS (Opera and Theatre.)

Andrews Co., A. H., Chicago, Ill.

## CHEMICALS.

Grasselli Chemical Co., Inc., Birmingham.

## CHEMISTS, CHEMICAL ENGINEERS (Analytical.)

Froehling & Robertson, Inc., Richmond, Va.  
Hunt Co., Robert W., Chicago, Ill.  
Pittsburgh Testing Laboratories, Pittsburgh, Pa.

### —(Consulting, Paper Industry.)

Froehling & Robertson, Inc., Richmond, Va.

## CHIMNEYS (Concrete.)

Rust Engineering Co., Birmingham, Ala.

### —(Radial Brick.)

Rust Engineering Co., Birmingham, Ala.

## CHUTES (Mail.)

Cutler Mail Chute Co., Rochester, N. Y.

## CIRCUIT BREAKERS.

Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

## CLUTCHES (Friction.)

Caldwell Co., Inc., W. E., Louisville, Ky.

## COAL (Bituminous.)

Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

## COAL and Ash-Handling Mch.

Shepard Niles Crane & Hoist Corp., Mount Airy, N. Y.

### —Jigs.

Steward Machine Co., Chas. C., Birmingham, Ala.

### —Tipples.

American Bridge Co., Pittsburgh, Pa.  
Virginia Bridge & Iron Co., Roanoke, Va.

### —Washers.

Steward Machine Co., Chas. C., Birmingham, Ala.

## COKE.

Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

## CONCRETE Construction (Reinforced.)

Rust Engineering Co., Birmingham, Ala.

## CONCRETE MIXERS.

Dunning & Boschert Press Co., Inc., Syracuse, N. Y.  
Jaeger Machine Co., Columbus, Ohio.

## CONDENSERS.

Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

## CONDUITS (Electric, Interior, Steel.)

Western Electric Co., New York, N. Y.  
Youngstown Sheet & Tube Co., Youngstown, Ohio.

## CONTRACTORS (Bridge.)

Hardaway Contracting Co., Columbus, Ga.  
Snare Corp., Frederick, New York, N. Y.

### —(Drainage and Dredging.)

Arundel Corp., The, Baltimore, Md.  
Atlantic Gulf and Pacific Co., New York.  
Shell Producers Co., Tampa, Fla.

### —Drilling.

Kennedy-Riegger Drilling Co., New York City.  
Mott Core Drilling Co., Huntington, W. Va.  
Pennsylvania Drilling Co., Pittsburgh, Pa.  
Sprague & Henwood, Inc., Scranton, Pa.

### —(Electrical.)

Walker Electrical Co., Atlanta, Ga.  
Warner Service Co., Knoxville, Tenn.  
Webb Electric Co., Anderson, S. C.

### —(Foundations and Dams.)

Snare Corp., Frederick, New York, N. Y.



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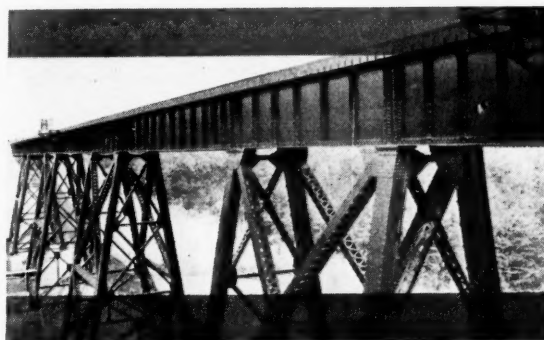
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Blair, Algernon, Montgomery, Ala.  
Burke, Inc., J. V. & R. T., New Orleans.  
Carnell Young Co., Inc., Macon, Ga.  
Fiske-Carter Constr. Co., Greenville, S. C.  
Smallman-MacQueen Construction Co., Birmingham.

Snare Corp., Frederick, New York, N. Y.  
White Engineering Corp., J. G., New York.  
—(Industrial Buildings.)  
Blair, Algernon, Montgomery, Ala.  
Fiske-Carter Constr. Co., Greenville, S. C.  
Lockwood Greene Engrs., Inc., Boston.  
Smallman-MacQueen Construction Co., Birmingham, Ala.  
Snare Corp., Frederick, New York, N. Y.  
White Engineering Corp., J. G., New York.

—(Marble.)  
Thrower Marble & Tile Co., Charlotte, N. C.

—(Power Piping.)  
Pittsburgh Piping & Equip. Co., Pittsburgh, Pa.  
Poe Piping & Heating Co., Greenville, S. C.

—(Power Plants.)  
Snare Corp., Frederick, New York, N. Y.

—(Railroad.)  
Carnell-Young Co., Inc., Macon, Ga.

—(Reinforced Concrete.)  
Blair, Algernon, Montgomery, Ala.

—(Road and Street Paving.)  
Fiske-Carter Constr. Co., Greenville, S. C.  
McCrory Co., J. B., Atlanta, Ga.

—(Rubble Stone)  
Brown, Jas. W., Greensboro, N. C.

—(Sewerage and Waterworks.)  
Hardaway Contracting Co., Columbus, Ga.  
Layne & Bowler, Inc., Memphis, Tenn.  
McCrory Co., J. B., Atlanta, Ga.  
Snare Corp., Frederick, New York, N. Y.

—(Sprinkler System.)  
Poe Piping & Heating Co., Greenville, S. C.

—(Stone, Cut)  
Brown, Jas. W., Greensboro, N. C.

—(Tile.)  
Thrower Marble & Tile Co., Charlotte, N. C.

### CONTRACTORS MACHINERY AND SUPPLIES.

(Used.)  
Lima Excavator Sales Agency, Lima, Ohio.  
Marine Metal & Supply Co., New York.

### CONTRACT WORK WANTED.

(See following classifications):  
Castings.  
Foundries and Machine Shops.  
Machinery (Special).  
Ornamental Iron Work.  
Patterns (Drawing, etc.).  
Sheet Metal Work.  
Structural Steel and Iron.

### CONVEYING AND ELEVATING MACHINERY.

Cleveland Crane & Engr. Co., Wickliffe, Ohio.  
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.

### CRANES.

Austin-Western Road Machinery Co., Chicago, Ill.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

—(Crawler.)  
Austin-Western Road Machinery Co., Chicago, Ill.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

—(Crawling Tractor.)  
Austin-Western Road Machinery Co., Chicago, Ill.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

—(Electric Traveling.)  
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.

—(Full Circle Steam and Electric.)  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

—(Gasoline.)  
Austin-Western Road Machinery Co., Chicago, Ill.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

—(Jib.)  
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.

—(Locomotive.)  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

—(Material Handling.)  
Austin-Western Road Machinery Co., Chicago, Ill.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

—(Traveling, hand power.)  
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.  
Wright Mfg. Co., Bridgeport, Conn.

CREOSOTE OIL.  
American Creosote Wks., New Orleans, La.  
Ayer & Lord Tie Co., Chicago, Ill.

CREOSOTED WOOD MATERIALS.  
American Creosote Wks., New Orleans, La.  
Atlantic Creosoting Co., Norfolk, Va.  
Ayer & Lord Tie Co., Chicago, Ill.  
Century Wood Preserving Co., Balto., Md.  
Eppinger & Russell Co., New York, N. Y.  
Gulf States Creos. Co., Hattiesburg, Miss.  
National Lumber & Creosoting Co., Texarkana, Ark.-Tex.

CROSS ARMS, TIES (Creosoted.)  
American Creosote Wks., New Orleans, La.  
Atlantic Creosoting Co., Norfolk, Va.  
Ayer & Lord Tie Co., Chicago, Ill.  
Century Wood Preserving Co., Balto., Md.  
Eppinger & Russell Co., New York, N. Y.

CRUSHED STONE (Road concrete and Ballast).  
American Limestone Co., Knoxville, Tenn.  
Borley & Co., W. W., Roanoke, Va.  
Culbert & Sons, W. F., Marion, Va.

CRUSHERS (Coal and Coke).  
Fuller Lehigh Co., Fullerton, Pa.  
Steward Machine Co., Chas. C., Birmingham, Ala.

—(Rock.)  
Grundler Crusher & Pulverizer Co., St. Louis, Mo.

CRUSHING and Pulverizing Machinery.  
Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Austin-Western Road Machinery Co., Chicago, Ill.  
Fuller Lehigh Co., Fullerton, Pa.  
Grundler Crusher & Pulverizer Co., St. Louis, Mo.

CULVERT PIPE (Cast Iron).  
Cast Iron Pipe Research Assn., Chicago, U. S. Pipe & Foundry Co., Burlington, N. J.

—(Corrugated Metal).  
American Sheet & Tin Plate Co., Pittsburgh, Pa.

CYLINDERS (Compressed Air, Gas).  
National Tube Co., Pittsburgh, Pa.

DESKS (School).  
Andrews Co., A. H., Chicago, Ill.

DITCHING MACHINERY.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

DOORS (Cabinet Woodwork).  
Mitchell Mfg. Co., Robert, Cincinnati, O.

—(Fireproof, Air Chamber).  
Wilson Corp., The J. G., New York.

—(Rolling, Steel and Wood).  
Wilson Corp., The J. G., New York.

—(Vault).  
York Safe & Lock Co., York, Penna.

DRAFTSMEN'S SUPPLIES.  
Weber Co., Inc., F., Philadelphia, Pa.

DRAGLINE EXCAVATORS.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

DREDGING (River and Harbor Improvement).  
Arundel Corp., The, Baltimore, Md.  
Atlantic Gulf and Pacific Co., New York.

DRILLS (Diamond and Shot Core).  
Sprague & Henwood, Inc., Scranton, Pa.

—(Oil and Artesian Well).  
Virginia Machinery & Well Co., Inc., Richmond, Va.

DRINKING FOUNTAINS.  
Rundle-Spence Mfg. Co., Milwaukee, Wis.

DYNAMITE (Industrial and Agricultural).  
Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

ECONOMIZERS (Fuel).  
Babcock & Wilcox Co., New York, N. Y.

ECONOMISTS (Administrative).  
Brookline Economic Service, New York.



**ELECTRICAL Instruments and Supplies.**  
General Electric Co., Schenectady, N. Y.  
Western Electric Co., New York, N. Y.

**ELECTRICAL MACHINERY**  
(Generators, Motors, etc., New.)  
Allis-Chalmers Mfg. Co., Milwaukee, Wis.  
Fairbanks, Morse & Co., Chicago, Ill.  
General Electric Co., Schenectady, N. Y.  
Partridge, Arthur S., St. Louis, Mo.  
Rockford Power Machy. Co., Rockford, Ill.

—(Generators, Motors, etc., Used.)  
Delta Equipment Co., Philadelphia, Pa.  
Electric Service Co., Cincinnati, Ohio.  
General Electric Co., Schenectady, N. Y.  
O'Brien Machinery Co., The, Phila., Pa.  
Reading Engineering Wks., Reading, Pa.  
Rockford Power Machy. Co., Rockford, Ill.

—(Repairing (Motors, Generators, etc.)  
Electric Service Co., Cincinnati, Ohio.

**ELECTRIC LIGHTING.**  
General Electric Vapor Lamp Co., Hoboken, N. J.  
Westinghouse Lamp Co., New York City.

**ELECTRIC SHOVELS (See Shovels.)**

**ELECTRICAL MACHINERY**  
(Generators, Motors, etc., New.)  
Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

**ELEVATORS (Electric.)**  
Miller Co., St. Louis, Mo.

—(Hand and Belt Power.)  
Miller Co., St. Louis, Mo.

**ENGINEERS (Airports.)**  
Lockwood Greene Engrs., Inc., New York.

—(Appraisal.)  
Lockwood Greene Engrs., Inc., New York.  
Main, Inc., Chas. T., Boston, Mass.  
White Engineering Corp., J. G., New York.  
Wiedeman and Singleton, Inc., Atlanta.

—(Bridge.)  
Gardner & Howe, Memphis, Tenn.  
Hardaway Contracting Co., Columbus, Ga.  
Hedrick, Inc., Ira G., Hot Springs, Nat'l Park, Ark.  
Steel & Leiby, Knoxville, Tenn.  
Virginia Bridge & Iron Co., Roanoke, Va.  
Wiley & Wilson, Lynchburg, Va.

—(Chemical.)  
Dew & Smith, New York, N. Y.  
Picard Laboratories, Birmingham, Ala.

—(Civil.)  
Gardner & Howe, Memphis, Tenn.  
Harrub Engr. Co., C. N., Nashville, Tenn.  
Main, Inc., Chas. T., Boston, Mass.  
Saxe, Van Rensselaer P., Baltimore, Md.  
Spring, Chas. Herbert, Greensboro, N. C.  
Steel & Leiby, Knoxville, Tenn.  
White Engineering Corp., J. G., New York.  
Wiley & Wilson, Lynchburg, Va.

—(Consulting.)  
Conover & Co., J. B., Mobile, Ala.  
Engineering Service Corp., Houston, Tex.  
Goder, Joseph, Chicago, Ill.  
Hedrick, Inc., Ira G., Hot Springs, Nat'l Park, Ark.  
Lockwood Greene Engrs., Inc., New York.  
Main, Inc., Chas. T., Boston, Mass.  
Saxe, Van Rensselaer P., Baltimore, Md.  
White Engineering Corp., J. G., New York.  
Wiedeman & Singleton, Inc., Atlanta, Ga.  
Wiley & Wilson, Lynchburg, Va.

—(Cost.)  
Ernst & Ernst, New York, N. Y.

—(Dams.)  
Alpaugh & Sons, Chas. W., Manassas, Va.  
Byllesby Engineering and Management Corp., Chicago, Ill.  
Gardner & Howe, Memphis, Tenn.  
Hardaway Contracting Co., Columbus, Ga.  
Hedrick, Inc., Ira G., Hot Springs, Nat'l Park, Ark.  
Lee Engineering Corp., William S., Charlotte, N. C.  
Main, Inc., Chas. T., Boston, Mass.  
White Engineering Corp., J. G., New York.  
Wiley & Wilson, Lynchburg, Va.

—(Drainage and Irrigation.)  
Huey, S. E., Monroe, La.

—(Efficiency.)  
Ernst & Ernst, New York, N. Y.

—(Electrical.)  
Engineering Service Corp., Houston, Tex.  
Lee Engineering Corp., William S., Charlotte, N. C.  
Lockwood Greene Engrs., Inc., New York.  
Main, Inc., Chas. T., Boston, Mass.  
Webb Electric Co., Anderson, S. C.  
Wiley & Wilson, Lynchburg, Va.

—(Electric Light and Power.)  
Plants.)

Byllesby Engineering and Management Corp., Chicago, Ill.  
Lee Engineering Corp., William S., Charlotte, N. C.  
Main, Inc., Chas. T., Boston, Mass.  
White Engineering Corp., J. G., New York, N. Y.  
Wiley & Wilson, Lynchburg, Va.

—(Gas.)  
Byllesby Engineering and Management Corp., Chicago, Ill.  
Huey, S. E., Monroe, La.

—(Geological.)  
Froehling & Robertson, Inc., Richmond, Va.

—(Harbor Improvements.)  
Engineering Service Corp., Houston, Tex.

—(Heating.)  
Wiley & Wilson, Lynchburg, Va.

—(Hydraulic.)  
Alpaugh & Sons, Chas. W., Manassas, Va.  
Main, Inc., Chas. T., Boston, Mass.  
Wiley & Wilson, Lynchburg, Va.

—(Hydro-electric.)  
Alpaugh & Sons, Chas. W., Manassas, Va.  
Byllesby Engineering and Management Corp., Chicago, Ill.  
Lee Engineering Corp., William S., Charlotte, N. C.  
Main, Inc., Chas. T., Boston, Mass.  
White Engineering Corp., J. G., New York, N. Y.  
Wiley & Wilson, Lynchburg, Va.

—(Ice and Refrigerating.)  
Engineering Service Corp., Houston, Tex.

—(Industrial Plants.)  
Conover, Older & Quinlan, Inc., Chicago.  
Converse & Co., J. B., Mobile, Ala.  
Gardner & Howe, Memphis, Tenn.  
Lockwood Greene Engrs., Inc., New York.  
Main, Inc., Chas. T., Boston, Mass.  
Preacher & Co., Inc., G. Lloyd, Atlanta.  
Wiley & Wilson, Lynchburg, Va.

—(Industrial Survey.)  
Converse & Co., J. B., Mobile, Ala.  
Lockwood Greene Engrs., Inc., New York.

—(Inspection and Tests.)  
Dow & Smith, New York, N. Y.  
Froehling & Robertson, Inc., Richmond, Va.  
Hunt Co., Robert W., Chicago, Ill.  
McCallum Inspection Co., Norfolk, Va.  
Picard Laboratories, Birmingham, Ala.

—(Lighting.)  
Byllesby Engineering and Management Corp., Chicago, Ill.  
General Electric Vapor Lamp Co., Hoboken, N. J.  
Westinghouse Lamp Co., New York City.  
Wiley & Wilson, Lynchburg, Va.

—(Mechanical.)  
Engineering Service Corp., Houston, Tex.  
Lee Engineering Corp., William S., Charlotte, N. C.  
Lockwood Greene Engrs., Inc., New York.  
Main, Inc., Chas. T., Boston, Mass.  
Wiley & Wilson, Lynchburg, Va.

—(Mining. See Engineers, Geological.)

—(Municipal.)  
Conover, Older & Quinlan, Inc., Chicago.  
Dow & Smith, New York, N. Y.  
Harrub Engr. Co., C. N., Nashville, Tenn.  
Huey, S. E., Monroe, La.  
McCrory Co., The J. B., Atlanta, Ga.  
Wiley & Wilson, Lynchburg, Va.

—(Paving and Roads.)  
Dow & Smith, New York, N. Y.  
Harrub Engr. Co., C. N., Nashville, Tenn.

—(Printing and Newspaper Plants.)  
Lockwood Greene Engrs., Inc., New York.

—(Public Service Properties.)  
Byllesby Engineering and Management Corp., Chicago, Ill.  
Main, Inc., Chas. T., Boston, Mass.  
White Engineering Corp., J. G., New York.

—(Railroad.)  
Huey, S. E., Monroe, La.

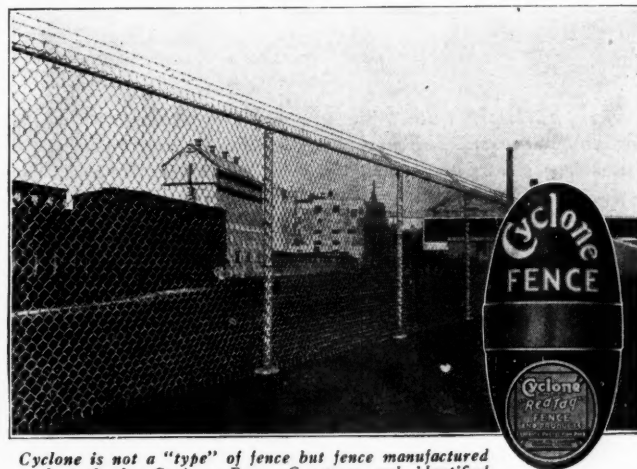
—(Reinforced Concrete Bridges, Buildings, etc.)  
Gardner & Howe, Memphis, Tenn.  
Lockwood Greene Engrs., Inc., New York.  
Main, Inc., Chas. T., Boston, Mass.  
Saxe, Van Rensselaer P., Baltimore, Md.  
Steel & Leiby, Knoxville, Tenn.

—(Sanitary.)  
Whitman, Requaardt & Smith, Balto., Md.  
Wiley & Wilson, Lynchburg, Va.

—(Sewage Disposal Plants.)  
McCrory Co., The J. B., Atlanta, Ga.  
Wiedeman & Singleton, Inc., Atlanta.  
Wiley & Wilson, Lynchburg, Va.

—(Sewerage and Waterworks.)  
Conover, Older & Quinlan, Inc., Chicago.  
Hardaway Contracting Co., Columbus, Ga.

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Cyclone is not a "type" of fence but fence manufactured exclusively by Cyclone Fence Company and identified by this trademark

*because* Cyclone assures and guarantees satisfaction. A guarantee that only could be backed up by a product made in the best possible way with the best possible materials. Cyclone Fence gives many additional years of service because it is made of copper-steel, heavily galvanized, and erected on H-column posts, set in concrete foundations—

*because* Cyclone Fence—is erected by crews trained in Cyclone factories. Not a chance of a slip-up in the work! Not a chance for poor execution! And you are freed from the bother and care of hiring men or superintending work.

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SUBSIDIARY OF UNITED STATES STEEL CORPORATION

Pacific Coast Division:  
Standard Fence Company, Oakland, Calif.

Cyclone is not a "type" of fence but fence made exclusively by Cyclone Fence Company and identified by this trademark.

# Cyclone Fence

REG. U.S. PAT. OFF.

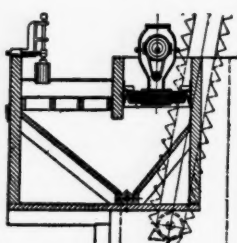
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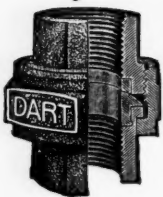
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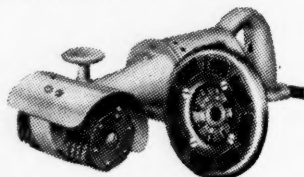
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Virginia Bridge & Iron Co., Roanoke, Va.

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Lockwood Greene Engrs., Inc., New York.  
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Wiley & Wilson, Lynchburg, Va.

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Hill & Griffith Co., Cincinnati, O.

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Fuller Lehigh Co., Fullerton, Pa.

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Associated Gas & Elec. System, New York, N. Y.

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Chicago Bridge & Iron Wks., Birmingham.  
McClintic-Marshall Corp., Bethlehem, Pa.

GASOLINE and KEROSENE.  
Gulf Refining Co., Pittsburgh, Pa.

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Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

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Gallon Iron Wks. & Mfg. Co., Gallon, O.

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North Carolina Granite Corp., The, Mount Airy, N. C.

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Date Engine Co., Grand Haven, Mich.

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**REINFORCING for Concrete.**  
American Steel and Wire Co., Balto., Md.  
Austin Bros. Bridge Co., Atlanta, Ga.  
Carnegie Steel Co., Pittsburgh, Pa.  
Dietrich Brothers, Baltimore, Md.  
Gulf States Steel Co., Birmingham, Ala.

**RIVER & HARBOR IMPROVEMENTS (Dredging, Docks, Wharves, etc.)**  
Arundel Corp., Baltimore, Md.  
Atlantic Gulf and Pacific Co., New York.

**ROAD and Street Machinery.**  
Austin-Western Road Machinery Co., Chicago, Ill.  
Buffalo-Springfield Roller Co., Springfield, O.  
Caterpillar Tractor Co., Peoria, Ill.  
Gallon Iron Wks. & Mfg. Co., Gallon, O.

—and Street Material.  
Boxley & Co., W. W., Roanoke, Va.  
Koppers Products Co., Pittsburgh, Pa.  
Woodstock Slag Corp., Birmingham, Ala.

—Graders and Scrapers.  
Austin-Western Road Machinery Co., Chicago, Ill.  
Caterpillar Tractor Co., Peoria, Ill.  
Gallon Iron Wks. & Mfg. Co., Gallon, O.

—Oils and Preservatives.  
Gulf Refining Co., Pittsburgh, Pa.

—Rollers (Steam and Gasoline.)  
Austin-Western Road Machinery Co., Chicago, Ill.  
Buffalo-Springfield Roller Co., Springfield, O.

—Scarifiers.  
Austin-Western Road Machinery Co., Chicago, Ill.  
Buffalo-Springfield Roller Co., Springfield, O.

**ROOFING (Asphalt Built-Up.)**  
Barber Asphalt Co., Philadelphia, Pa.

—(Ready Prepared, Felt, Tar Asbestos, Asphalt.)  
Ruberoid Co., New York City.

**ROOFING and Siding (Composition.)**  
Ruberoid Co., New York City.

—(Metal.)  
American Rolling Mill Co., Middletown, O.  
American Sheet and Tin Plate Co., Pittsburgh, Pa.  
Gulf States Steel Co., Birmingham, Ala.  
Youngstown Sheet and Tube Co., Youngstown, O.

**SAFES.**  
York Safe & Lock Co., York, Penna.

**SAND.**  
Arundel Corp., Baltimore, Md.  
Friend & Co., Inc., Petersburg, Va.

**SANITARY Drinking Fountains.**  
Rundle-Spence Mfg. Co., Milwaukee, Wis.

**SAWMILL Machinery.**  
Schofield's Sons Co., J. S., Macon, Ga.

**SAWS (Cold Metal.)**  
Earle Gear and Machine Co., Phila., Pa.

**SCALES (Auto Truck.)**  
Fairbanks, Morse & Co., Chicago, Ill.

**SCRAP IRON AND STEEL.**  
Smith & Co., W. M., Birmingham, Ala.

**SCREEN CLOTH.**  
Seneca Wire & Mfg. Co., Fostoria, Ohio.

**SCREENING (For Concrete and Road Construction.)**  
American Limestone Co., Knoxville, Tenn.

**SCREENS (Sand, Gravel, Stone, Coal, Ore, etc.)**  
Erdie Perforating Co., Rochester, N. Y.  
Gravelier Crusher & Pulverizer Co., St. Louis, Mo.  
Harrington & King Perftg. Co., Chicago.  
Mundt & Sons, Charles, Jersey City, N. J.

**SCREW-Machine Products.**  
Progressive Mfg. Co., Torrington, Conn.

**SEAWALLS.**  
Shore-Line Builders, Inc., Jacksonville, Fla.

**SEWAGE Disposal Systems.**  
D-N Corporation, New York, N. Y.

**SEWER Joint Compounds.**  
Leadite Co., Philadelphia, Pa.

—Pipe (Vitrified.)  
Lee Clay Products Co., Clearfield, Ky.  
Owensboro Sewer Pipe Co., Owensboro, Ky.

**SEWER Pipe Machinery.**  
Quinn Wire & Iron Works, Boone, Iowa.

**SHAFTING Material (Tubular.)**  
National Tube Co., Pittsburgh, Pa.

**SHARPENING Stones.**  
Carborundum Co., Niagara Falls, N. Y.

**SHEET Steel and Iron.**  
American Sheet and Tin Plate Co., Pittsburgh, Pa.  
Bethlehem Steel Co., Bethlehem, Pa.  
Gulf States Steel Co., Birmingham, Ala.  
Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.  
Youngstown Sheet & Tube Co., Youngstown, O.

—Metal Working Machinery.  
Bertsch & Co., Cambridge City, Ind.

**SHEETS (Asbestos.)**  
Ruberoid Co., New York City.

—(Galvanized and Black.)  
American Rolling Mill Co., Middletown, Pa.  
American Sheet & Tin Plate Co., Pittsburgh, Pa.

**SHINGLES (Asbestos.)**  
Ruberoid Co., New York City.

**SHIPBUILDING.**  
Charleston Dry Dock & Machine Co., Charleston, S. C.

**SHOVELS (Steam, Gas and Electric Power.)**  
Austin-Western Road Machinery Co., Chicago, Ill.  
Northwest Engineering Co., Chicago, Ill.  
Ohio Power Shovel Co., Lima, Ohio.

**SILICATE OF SODA.**  
Grasile Chemical Co., Inc., Birmingham.

**SITES (Manufacturing.)**  
Associated Gas & Elec. System, New York, N. Y.  
Crisp County Power Co., Cordele, Ga.  
Galveston, Texas, City of.  
Industrial Commission, Winston-Salem, N. C.  
Missouri Pacific R. R., St. Louis, Mo.  
Model Land Company (Flagler System), St. Augustine, Fla.  
Norfolk & Western Railway, Roanoke, Va.



Seaboard Public Service Co., Alexandria, Va.

**SLAG, For Concrete.**

Woodstock Slag Corp., Birmingham, Ala.

**—(Furnace.)**

Woodstock Slag Corp., Birmingham, Ala.

**SLINGS (Wire Rope.)**

American Steel & Wire Co., Chicago, Ill.  
Roebbing's Sons Co., John A., Trenton, N. J.

**SLUICE GATES AND APPLI-**

**ANCES.**  
Smith Co., S. Morgan, York, Pa.

**SPEED REDUCERS.**

Earle Gear & Mach. Co., Phila., Pa.

**SPIKES (Railroad, Ship.)**

Bethlehem Steel Co., Bethlehem, Pa.  
Sweet's Steel Co., Williamsport, Pa.

**SPRINGS (Machinery, Railway,**

**Spiral Steel.)**  
American Steel & Wire Co., Balto., Md.

**—(Wire—All Kinds.)**

American Steel & Wire Co., Balto., Md.

**SPRINKLERS (Automatic Fire.)**

Moore Pipe & Sprinkler Co., Jacksonville, Fla.

**STACKS (Iron and Steel.)**

Birmingham Boiler and Engineering Co., Birmingham, Ala.

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Chicago Bridge & Iron Wks., Birmingham.

Hedges Walsh Weldner Co., Chattanooga.

Pittsburgh-Des Moines Steel Co., Pitts-

burgh, Pa.

Schofield's Sons Co., J. S., Macon, Ga.

U. S. Pipe & Foundry Co., Burlington, N. J.

Virginia Bridge & Iron Co., Roanoke, Va.

**STAINS (Shingle, Woodwork.)**

Cabot, Inc., Samuel, Boston, Mass.

**STAIR TREADS.**

Central Iron & Steel Co., Harrisburg, Pa.

**STANDPIPES.**

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Chicago Bridge & Iron Wks., Birmingham.

Pittsburgh-Des Moines Steel Co., Pitts-

burgh, Pa.

**STATIONERS (Envelopes, Letter**

**and Billheads, etc.)**  
Smith & Son Co., Oscar T., Balto., Md.

Young & Seiden Co., Baltimore, Md.

**STEAM (Specialties.)**

Lunkenshimer Co., The, Cincinnati, O.

**STEEL.**

American Rolling Mill Co., Middletown, O.

Bethlehem Steel Co., Bethlehem, Pa.

Central Iron & Steel Co., Harrisburg, Pa.

Dietrich Brothers, Baltimore, Md.

Gulf States Steel Co., Birmingham, Ala.

Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

Virginia Bridge & Iron Co., Roanoke, Va.

**—(Cold Rolled.)**

American Steel & Wire Co., Balto., Md.

**—(Fabricators.)**

United Welding Co., Middletown, O.

**—(Tool, High Speed.)**

Bethlehem Steel Co., Bethlehem, Pa.

**STEEL Buildings (Designers and**

**Builders.)**  
American Bridge Co., Pittsburgh, Pa.

Belmont Iron Works, Philadelphia, Pa.

Carolina Steel & Iron Co., Greensboro, N. C.

McClintic-Marshall Corp., Bethlehem, Pa.

Pittsburgh-Des Moines Steel Co., Pitts-

burgh, Pa.

Virginia Bridge & Iron Co., Roanoke, Va.

**—Plate Construction (Riveted**

**or Welded.)**  
Birmingham Boiler & Engr. Co., Bir-

mingham, Ala.

Bristol Steel & Iron Works, Inc., Bristol, Va.

Carolina Steel & Iron Co., Greensboro, N. C.

Central Iron & Steel Co., Harrisburg, Pa.

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Chicago Bridge & Iron Wks., Birmingham.

Hedges Walsh Weldner Co., Chattanooga.

McClintic-Marshall Corp., Bethlehem, Pa.

Pittsburgh-Des Moines Steel Co., Pitts-

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Schofield's Sons Co., J. S., Macon, Ga.

United Welding Co., Middletown, O.

**STOKERS (Mechanical.)**

Alabama Stoker & Boiler Co., Birming-

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Babcock & Wilcox Co., The, New York.

Detroit Stoker Company, Detroit, Mich.

**STRUCTURAL STEEL AND**

**IRON.**

American Bridge Co., Pittsburgh, Pa.

Austin Bros. Bridge Co., Atlanta, Ga.

Belmont Iron Works, Philadelphia, Pa.

Bristol Steel & Iron Works, Inc., Bristol, Va.

Carnegie Steel Co., Pittsburgh, Pa.

Carolina Steel & Iron Co., Greensboro, N. C.

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Dietrich Brothers, Baltimore, Md.

Pittsburgh-Des Moines Steel Co., Pitts-

burgh, Pa.

Roanoke Iron & Bridge Works, Inc., Roanoke, Va.

Snead Architectural Iron Works, Louis-

ville, Ky.

Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

Virginia Bridge & Iron Co., Roanoke, Va.

**SULPHATE OF ALUMINA.**

Grasselli Chemical Co., Inc., Birmingham.

**SULPHIDE OF SODA.**

Grasselli Chemical Co., Inc., Birmingham.

**SULPHURIC ACID.**

Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

**SUPER-HEATERS (Steam.)**

Babcock & Wilcox Co., The, New York.

**SURFACING (Roads and Streets)**

Culbert & Sons, W. F., Marion, Va.

Koppers Products Co., Pittsburgh, Pa.

**SURVEYS (Industrial.)**

Technical Service Co., New York, N. Y.

**—(Quantity.)**

Spring, Charles Herbert, Greensboro, N. C.

**SURVEYING INSTRUMENTS.**

Weber Co., Inc., F., Philadelphia, Pa.

**SWINGING ENGINES.**

Dake Engine Co., Grand Haven, Mich.

**SWITCHBOARDS, SWITCHES,**

**ETC.**

General Electric Co., Schenectady, N. Y.

Westinghouse Electric & Mfg. Co., Pitts-

burgh, Pa.

**SYSTEMS (Business.)**

Ernst & Ernst, New York, N. Y.

**TANKS (Air Compressor.)**

Titusville Iron Works Co., Titusville, Pa.

**—(Elevated Steel.)**

Caldwell Co., Inc., W. E., Louisville, Ky.

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Chicago Bridge & Iron Wks., Birmingham.

Cole Mfg. Co., R. D., Newman, Ga.

Pittsburgh-Des Moines Steel Co., Pitts-

burgh, Pa.

Schofield's Sons Co., J. S., Macon, Ga.

Virginia Bridge & Iron Co., Roanoke, Va.

**—(Elevated Wood.)**

Caldwell Co., Inc., W. E., Louisville, Ky.

Davis & Son, G. M., Palatka, Fla.

**—(Iron and Steel.)**

American Bridge Co., Pittsburgh, Pa.

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Chicago Bridge & Iron Wks., Birmingham.

Cole Mfg. Co., R. D., Newman, Ga.

Flannery Co., Inc., J. J., Atlanta, Ga.

McClintic-Marshall Corp., Bethlehem, Pa.

Pittsburgh-Des Moines Steel Co., Pitts-

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Schofield's Sons Co., J. S., Macon, Ga.

Titusville Iron Works Co., Titusville, Pa.

Virginia Bridge & Iron Co., Roanoke, Va.

Westinghouse Traction Brake Co., Wil-

merding, Pa.

**—(Seamless Steel.)**

National Tube Co., Pittsburgh, Pa.

**—(Storage, Oil, etc.)**

Biggs Boiler Works, Akron, Ohio.

Birmingham Boiler & Engr. Co., Bir-

mingham, Ala.

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Chicago Bridge & Iron Wks., Birmingham.

Pittsburgh-Des Moines Steel Co., Pitts-

burgh, Pa.

Titusville Iron Works Co., Titusville, Pa.

United Welding Co., Middletown, O.

**—(Wood.)**

Caldwell Co., Inc., W. E., Louisville, Ky.

Davis & Son, G. M., Palatka, Fla.

Virginia Mch. & Well Co., Richmond, Va.

**TARPAULINS.**

Atlanta Tent & Awning Co., East Point, Ga.

Fulton Bag & Cotton Mills, Atlanta, Ga.

TENTS.

Fulton Bag & Cotton Mills, Atlanta, Ga.

TEXTILE CHEMICALS.

Grasselli Chemical Co., Inc., Birmingham.

TILE. (Floor.)

Hood Co., B. Mifflin, Daisy, Tenn.

—(Roof.)

Hood Co., B. Mifflin, Daisy, Tenn.

—(Sewer.)

Lee Clay Products Co., Clearfield, Ky.

TIN AND TERNE PLATES.

American Sheet & Tin Plate Co., Pitts-

burgh, Pa.

Youngstown Sheet & Tube Co., Youngs-

town, Ohio.

TOOLS AND DIES.

Gerding Bros., Cincinnati, O.

TOWERS (Electric Transmis-

sion.)

American Bridge Co., Pittsburgh, Pa.

—(Steel and Wood.)

Chattanooga Boiler & Tank Co., Chattanooga, Tenn.

Cole Mfg. Co., R. D., Newman, Ga.

TRACK (Portable or Permanent.)

Equipment Corp. of America, Chicago, Ill.

Sweet's Steel Co., Williamsport, Pa.

TRACTORS (Industrial.)

Caterpillar Tractor Co., Peoria, Ill.

International Harvester Co. of America, Inc., Chicago, Ill.

—(Road.)

Caterpillar Tractor Co., Peoria, Ill.

TRAILERS (Arch-Girder, Heavy

Duty.)

Wellman Engr. Co., Cleveland, O.

—Motor Truck.

Steel Products Co., Savannah, Ga.

TRAMRAIL SYSTEMS (Hand or

Electric.)

Cleveland Crane & Engr. Co., Wickliffe, O.

TRAMWAYS (Aerial Wire

Rope.)

American Steel & Wire Co., Balto., Md.

TRANSFORMERS.

General Electric Co., Schenectady, N. Y.

—(Used.)

Electric Service Co., Cincinnati, O.

Westinghouse Electric & Mfg. Co., Pitts-

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(Galvanized.)

McClintic-Marshall Corp., Bethlehem, Pa.

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TRI-SODIUM PHOSPHATE.

Grasselli Chemical Co., Inc., Birmingham.

TRUCKS (Motor.)

International Harvester Co. of America, Inc., Chicago, Ill.

TUBES (Boiler.) See Boiler

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TUBING (Seamless Steel.)

National Tube Co., Pittsburgh, Pa.

TURBINES (Hydraulic.)

Smith Co., S. Morgan, York, Pa.

—(Steam.)

Allis-Chalmers Mfg. Co., Milwaukee, Wis.

DeLaval Steam Turbine Co., Trenton, N. J.

General Electric Co., Schenectady, N. Y.

Westinghouse Electric & Mfg. Co., Pitts-

burgh, Pa.

TURNABLES.

American Bridge Co., Pittsburgh, Pa.

Virginia Bridge & Iron Co., Roanoke, Va.

UNIONS.

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VALVES.

La Bour Co., Elkhart, Ind.

Ludlow Valve Mfg. Co., The, Troy, N. Y.

Lunkenshimer Co., The, Cincinnati, O.

Westinghouse Traction Brake Co., Wil-

merding, Pa.

—(Acid Proof.)

Lunkenshimer Co., The, Cincinnati, Ohio.

—(Corrosive Liquids.)

La Bour Co., Elkhart, Ind.

—(Gate.)

Ludlow Valve Mfg. Co., The, Troy, N. Y.

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—(Non-Corrosive Liquids.)

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**VAULTS (Bank and Safe De-**

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**WAGONS (Crawlers.)**

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**WARDROBES (Hygienic,**

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Wilson Corp., The J. G., New York.

**WATER HEATERS.**

Finnigan Co., Inc., J. J., Atlanta, Ga.

**WATER Purification.**

Bacharach & Co., E. W., Kansas City.

International Filter Co., Chicago, Ill.

Roberts Filter Mfg. Co., Darby (Phila.)

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**—Softening Apparatus (Purify-**

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American Water Softener Co., Phila., Pa.

International Filter Co., Chicago, Ill.

**—Works Supplies and Appli-**

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Cast Iron Pipe Research Assn., Chicago.

Glamorgan Pipe & Fdry. Co., Lynchburg, Va.

Layne & Bowler, Inc., Memphis, Tenn.

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